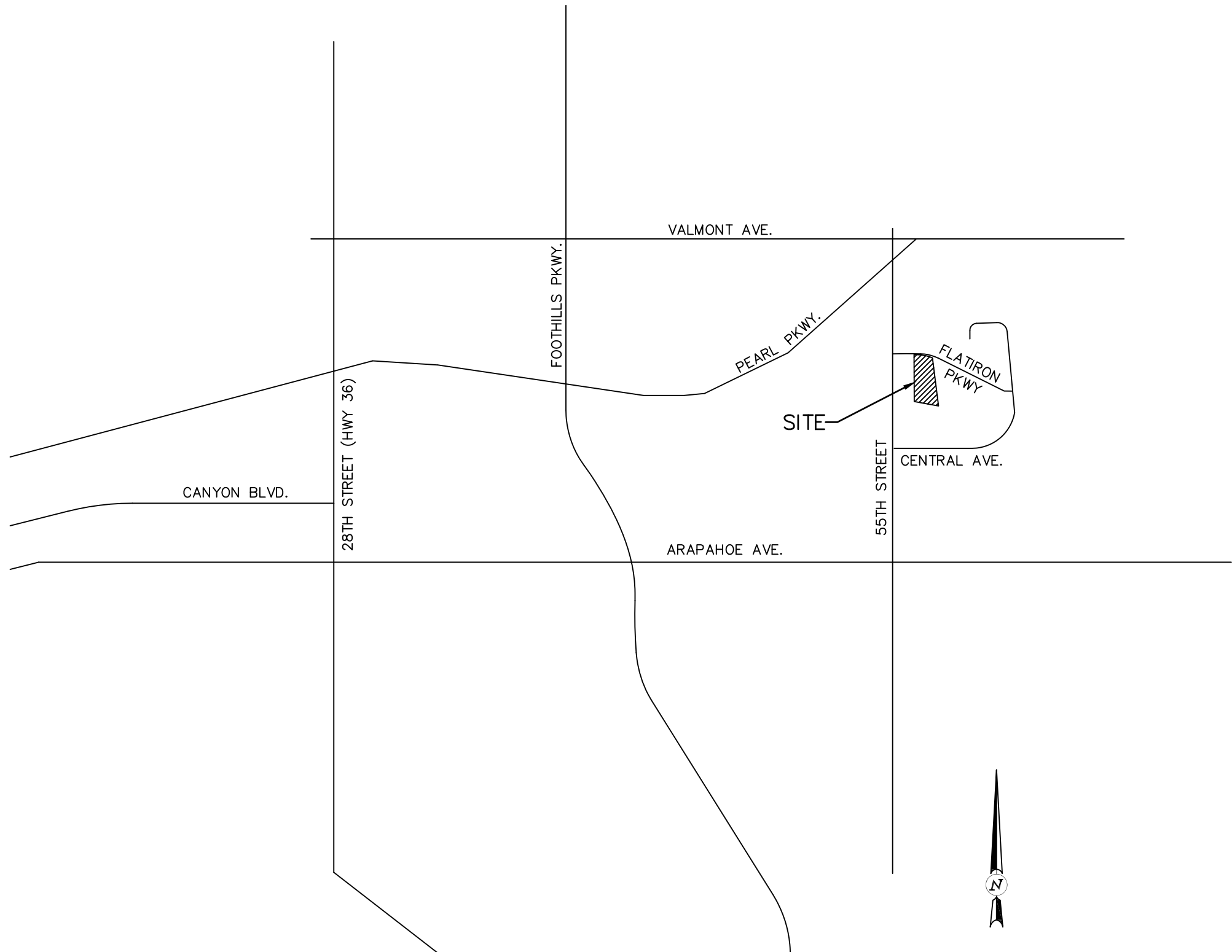


FINAL ENGINEERING PLANS
FOR
BOULDER COUNTY CORONER FACILITY
5600 FLATIRON PARKWAY
BOULDER, COLORADO

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "DESIGN AND CONSTRUCTION STANDARDS" OF THE CITY OF BOULDER, AND SHALL BE COMPLETED TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS. IN THE EVENT THAT A DESIGN ELEMENT DOES NOT REFLECT CITY STANDARDS, THE MATTER MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE DIRECTOR OF PUBLIC WORKS. THE ENGINEER SHALL BE RESPONSIBLE FOR RECOMMENDING A SOLUTION OR ALTERNATIVE SOLUTIONS TO THE CITY FOR REVIEW AND APPROVAL.
- THE APPROVAL OF A CONSTRUCTION PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF CONSTRUCTING WORKABLE PUBLIC IMPROVEMENTS. ALL REVISIONS AND/OR CORRECTIONS REQUIRED WILL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY, AND AT THEIR EXPENSE.
- THESE PLANS HAVE BEEN CHECKED BY THE CITY OF BOULDER ONLY FOR CONFORMANCE WITH THE "DESIGN AND CONSTRUCTION STANDARDS." COMPLIANCE WITH DEVELOPMENT AGREEMENT CONDITIONS, AND FOR GENERAL CONCEPTUAL APPROVAL OF PUBLIC IMPROVEMENTS AS SHOWN. THE CITY'S REVIEW DOES NOT VERIFY OR ENSURE THE ACCURACY OF EXISTING OR PROPOSED DIMENSIONS, LINES, COORDINATES, OR GRADES SHOWN, INCLUDING ALL EXISTING UTILITIES SHOWN OR NOT SHOWN.
- UTILITY LOCATIONS SHOWN REFLECT AVAILABLE RECORD DATA. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITY LINES SHOWN AND OTHER UTILITY LINES OTHERWISE LOCATED. THE CONTRACTOR SHALL CONTACT THE "UTILITY NOTIFICATION CENTER OF COLORADO" AT 1-800-922-1987 FOR UTILITY LOCATES 24 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- BEFORE WORK BEGINS, THE CONTRACTOR SHALL OBTAIN A PERMIT TO WORK IN THE RIGHT-OF-WAY FROM THE CITY AND MUST NOTIFY THE CITY RIGHT-OF-WAY INSPECTION STAFF AT LEAST 24 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL OBTAIN AND MAINTAIN A COMPLETE AND APPROVED SET OF CONSTRUCTION PLANS. THESE DRAWINGS, AND ANY REQUIRED PERMITS, SHALL BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE TO CITY STAFF UPON REQUEST. IF CONSTRUCTION PLANS ARE NOT READILY AVAILABLE AT THE PROJECT SITE, THE DIRECTOR OF PUBLIC WORKS MAY ISSUE A STOP WORK ORDER AND HALT ALL CONSTRUCTION ACTIVITIES PENDING COMPLIANCE BY THE CONTRACTOR.
- THE CONTRACTOR AGREES TO COMPLY WITH THE PROVISIONS OF THE TRAFFIC CONTROL PLAN AND THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," "TEMPORARY TRAFFIC CONTROL" SECTION, FOR CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL.
- ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND RUBBISH CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED, AND THE AREA OCCUPIED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION, WITHIN 48 HOURS OF PROJECT COMPLETION, UNLESS OTHERWISE DIRECTED BY THE DIRECTOR OF PUBLIC WORKS.
- THE CONTRACTOR SHALL PROVIDE TREE AND LANDSCAPE PROTECTION AS SET FORTH IN CHAPTER 6-6, "PROTECTION OF TREES AND PLANTS," BOULDER REVISED CODE (B.R.C.) 1981 AND THE CITY OF BOULDER DESIGN AND CONSTRUCTION STANDARDS (DCS). ALL LANDSCAPING SHALL BE PROVIDED AND MAINTAINED IN COMPLIANCE WITH THE APPROVED LANDSCAPING PLAN, B.R.C. AND DCS.
- THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT "URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3," THE M-STANDARD PLANS OF THE COLORADO DEPARTMENT OF TRANSPORTATION, AND THE APPROVED EROSION CONTROL PLAN. THE DIRECTOR OF PUBLIC WORKS MAY REQUIRE THE CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED.
- THE CITY OF BOULDER REQUIRES THAT SIDEWALKS CONSTRUCTED HAVE A CROSS SLOPE OF LESS THAN 2%. SIDEWALKS SHALL BE DESIGNED AND CONSTRUCTED WITH CROSS SLOPES SUFFICIENTLY LESS THAN 2% TO ENSURE THAT THEY DO NOT EXCEED THE 2% MAXIMUM.
- THE CONTRACTOR IS REQUIRED TO INSURE THAT PUBLIC ROW PROXIMATE TO THIS SITE IS KEPT FREE AND CLEAR OF MUD AND DEBRIS THAT RESULT FROM CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE TIMELY RESTORATION, TO CITY STANDARDS, ANY PUBLIC INFRASTRUCTURE (CURBS, SIDEWALKS, PAVING, LANDSCAPING) THAT IS DAMAGED BY CONSTRUCTION ACTIVITIES RELATED TO THIS SITE. ALL PUBLIC TRAFFIC CONTROL PROCEDURES AND DEVICES UTILIZED FOR THIS SITE MUST BE PRE-APPROVED BY A CITY ROW INSPECTOR.
- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTORS SHALL NOTIFY THE UTILITY COMPANIES IN ADVANCE OF THEIR CONSTRUCTION OPERATION TO ENABLE THEM TO FIELD LOCATE THEIR UTILITIES.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND REPORT FINDINGS TO THE OWNER PRIOR TO PROCEEDING WITH RELATED CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SATISFY HIMSELF THAT ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, HAVE BEEN PROPERLY LOCATED. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AFFECTED BY THE PROSECUTION OF THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE AFFECTED UTILITY COMPANY AND THE COORDINATION OF ALL WORK IN THE PROXIMITY OF THE UTILITIES.
- IN ADVANCE OF NEW UTILITY CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO POTHOLE ALL UTILITIES TO WHICH THE NEW UTILITIES ARE TO BE CONNECTED, AND ALL UTILITIES WHICH ARE GOING TO BE CROSSED. ONCE EXPOSED, THE CONTRACTOR SHALL VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DIFFERENCES BETWEEN ACTUAL LOCATIONS AND LOCATIONS GIVEN ON THESE PLANS. NO CONTRACTOR CLAIMS FOR EXTRA COMPENSATION WILL BE GRANTED FOR PROJECT DELAYS ASSOCIATED WITH REDESIGN NECESSITATED BY CHANGES IN ACTUAL LOCATIONS BASED ON FIELD VERIFICATION. IF THE CONTRACTOR HAS TO REDO CONSTRUCTION TO AVOID UTILITY CONFLICTS DUE TO HIS FAILURE TO POTHOLE EXISTING STRUCTURES IN ADVANCE OF NEW UTILITY CONSTRUCTION, NO EXTRA COMPENSATION WILL BE GRANTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL SURFACES AND RELATED STRUCTURES SUCH AS DRIVEWAYS, CURBS, GUTTERS, WALKS, AND BITUMINOUS PAVEMENTS TO ORIGINAL CONDITIONS (OR BETTER) AND GRADES, UNLESS DESIGNATED OTHERWISE ON THE DRAWINGS. THE OWNER OR OWNER'S REPRESENTATIVE AND THE CONTRACTOR SHALL TOGETHER COORDINATE THE DOCUMENTATION OF EXISTING GRADES AND OTHER INFORMATION PRIOR TO ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF INSTALLATION BETWEEN ALL UTILITIES, INCLUDING BUT NOT LIMITED TO WATER LINES, SPRINKLER LINES, UNDERDRAIN, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, SPRINKLER CONTROL WIRING, GAS, FIRE LINES, AND WATER AND SEWER SERVICE LINES. COORDINATION INCLUDES DETERMINING THE SCHEDULING OF WHICH UTILITIES ARE INSTALLED WHEN. CONTRACTOR SHOULD NOTE COORDINATION IS NEEDED BETWEEN PLACEMENT OF FILL AND UTILITY INSTALLATION.
- ALL TRENCHES AND SUBGRADES SHALL BE BACKFILLED AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY, AS DETERMINED BY ASTM D698. EXISTING IN PLACE SOILS THAT ARE TO BE USED FOR SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 6" (INCHES) AND THEN SHALL BE RECOMPACTED TO THE ABOVE REFERENCED DENSITY. ALL EXISTING VEGETATION AND TOPSOIL MUST BE STRIPPED PRIOR TO SUBGRADE SCARIFICATION AND RECOMPACTATION.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF 5.0' OF COVER. 8 GAUGE TRACER WIRE SHALL BE INSTALLED ON ALL WATER MAINS.
- ALL WATER MAIN DEFLECTIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- EXISTING AND PROPOSED MANHOLE RIM ELEVATIONS AND VALVE BOXES SHALL BE ADJUSTED TO FINAL GRADE AS REQUIRED.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE DONE IN A WAY SO AS TO MINIMIZE DISRUPTION IN SERVICE TO EXISTING USERS.
- WATER, FIRE, AND SEWER TAPS, METER PITS, AND SERVICE LINE SIZES, MUST BE APPROVED BY THE CITY AS PART OF THE BUILDING PERMIT APPLICATION PROCESS. SIZES SHOWN ON THE PLANS MAY CHANGE AS A RESULT OF THIS APPROVAL PROCESS. ALL NEW WATER AND SANITARY SEWER SERVICE TAPS TO EXISTING MAINS SHALL BE MADE BY CITY CREWS AT CONTRACTOR'S EXPENSE.
- ALL PIPE LENGTHS SHOWN ARE FROM CENTER TO CENTER OF MANHOLES, INLETS, AND FITTINGS, OR END TO END OF FLARED END SECTIONS.
- SANITARY SERVICE LINES SHALL BE PVC ASTM D-3034 SDR 35 PIPE.
- ALL NEW WATER LINES SHALL BE CLASS 200 AWWA C-900 PVC PIPE. POLYETHYLENE ENCASEMENT FOR ALL FITTINGS WILL BE REQUIRED. ALL NEW WATER SERVICE LINES SHALL BE TYPE K COPPER. THRUST BLOCKS REQUIRED PER JURISDICTIONAL STANDARDS.
- ALL NEW 12" AND LARGER STORM SEWERS AND FLARED END SECTIONS SHALL BE CLASS III REINFORCED CONCRETE PIPE ASTM C-76. ALL NEW 6" AND 8" STORM SEWERS SHALL BE SMOOTH WALL CORRUGATED POLYETHYLENE PIPE AASHTO M252 OR PVC SDR 35 PIPE.
- ELEVATIONS ON THESE DRAWINGS ARE BASED ON CITY OF BOULDER BENCH MARK "A-14" (CITY OF BOULDER DATUM), FOUND CHISELED 'L' ON AN INLET BOX LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF 55TH STREET AND FLATIRON PARKWAY. ELEVATION =5203.03. ADD 5200 TO ALL SPOT ELEVATIONS.
- THE PROJECT BENCH MARK IS AN ALUMINUM CAP LOCATED AT THE AT THE SOUTHEAST CORNER OF LOT 1, FLATIRON INDUSTRIAL PARK FILING NO. 7. ELEVATION = 5205.47 (CITY OF BOULDER DATUM). ADD 5200 TO ALL SPOT ELEVATIONS.
- THE PROFILES FOR ALL UTILITY LINES ARE BASED ON THE CENTERLINE ALIGNMENT OF THAT UTILITY AND NOT OTHER SURVEY CONTROL LINES.
- THESE CIVIL DRAWINGS ARE BASED ON THE TOPOGRAPHIC SURVEY BY SCOTT, COX & ASSOCIATES, INC. DATED 12-20-12.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL LAYOUT AND DIMENSIONS OF ON-SITE PRIVATE IMPROVEMENTS.



VICINITY MAP
N.T.S.

SHEET INDEX

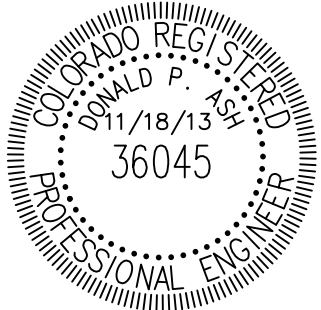
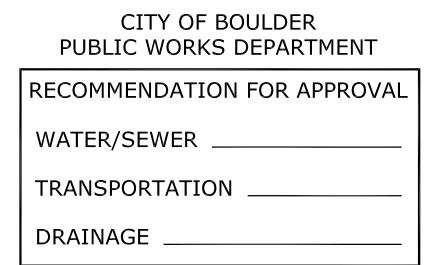
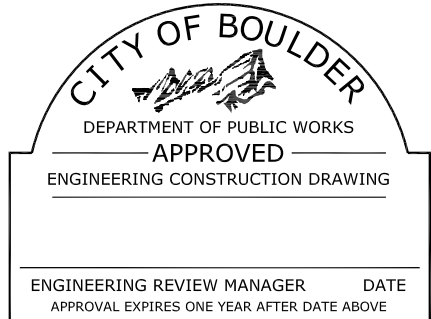
C1.01	COVER SHEET
C2.01	OVERALL SITE PLAN
C3.01	EXISTING CONDITIONS PLAN
C3.02	CIVIL SITE PLAN
C3.03	GRADING AND DRAINAGE PLAN
C3.04	UTILITY PLAN
C3.05	STORMWATER MANAGEMENT PLAN
C4.01	SANITARY SEWER PLAN AND PROFILE
C5.01	WATER MAIN PLAN AND PROFILE
C6.01	CIVIL DETAILS
C6.02	CIVIL DETAILS
C6.03	CIVIL DETAILS
C6.04	CIVIL DETAILS
C6.05	CIVIL DETAILS
C6.06	CIVIL DETAILS
C6.07	CIVIL DETAILS
L1.01	LANDSCAPE PLAN
L1.02	LANDSCAPE PLAN
I1.01	IRRIGATION NOTES AND SCHEDULE
I1.02	IRRIGATION PLAN
I1.03	IRRIGATION PLAN
I1.04	IRRIGATION DETAILS
I1.05	IRRIGATION DETAILS
E1.01	PHOTOMETRIC PLAN
E1.02	LUMINAIRE CUTSHEETS

LEGEND

	EXISTING DECIDUOUS TREE
	EXISTING PINE TREE
	EXISTING CONTOUR
	FOUND MONUMENT AS NOTED
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING LIGHT POLE
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER W/MANHOLE
	EXISTING WATER W/FIRE HYDRANT
	EXISTING GAS LINE
	EXISTING OVERHEAD POWER
	EXISTING UNDERGROUND POWER
	EXISTING FIBER OPTIC LINE
	EXISTING STORM SEWER W/MANHOLE
	PROPOSED CONTOUR
	POINT WHERE PROPOSED GRADE MEETS EXISTING GRADE
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	HISTORIC SHEET FLOW
	PROPOSED SHEET FLOW
	DRAINAGE BASIN BOUNDARY (HISTORIC)
	PROPOSED BASIN BOUNDARY
	PROPOSED SPILL CURB
	PROPOSED CATCH CURB
	SUB-BASIN DESIGNATION (HISTORIC)
	AREA IN ACRES
	PROPOSED SUB-BASIN DESIGNATION
	AREA IN ACRES
	FINISHED FLOOR ELEVATION
	PROPOSED STORM SEWER W/MANHOLE
	PROPOSED SANITARY SEWER
	PROPOSED WATER LINE
	PROPOSED UNDERGROUND POWER
	PROPOSED UNDERGROUND GAS LINE
	DESIGN POINT
	RAIN-GARDEN/BIO-RETENTION FACILITY

LEGAL DESCRIPTION

LOT 1, FLATIRON INDUSTRIAL PARK FILING NO. 7,
CITY OF BOULDER, COUNTY OF BOULDER, STATE OF
COLORADO.



DRAWN BY: JAS CHECKED BY: DPA

Boulder County Administrative Services
Building Services Division - Architects
2020 13th Street
Boulder, Colorado 80302
Tel: 303-441-3957
Fax: 303-441-1718



REVISION	DATE
Tec Doc Review	07/15/2013
Tec Doc Resubmittal	10/07/2013
Tec Doc Resubmittal	11/18/2013

SCOTT, COX & ASSOCIATES, INC.
consulting engineers • surveyors
1530 55th Street • Boulder, Colorado 80303
(303) 444 - 3051

Applicant Information
Boulder County Administrative Services
Building Services Division - Architects
P.O. Box 471
Boulder, Colorado 80306
Application Type: TEC DOC REVIEW
Case No.: TEC 2013-00046

**BOULDER COUNTY
CORONER FACILITY**
5600 Flatiron Parkway
Boulder, Colorado 80301

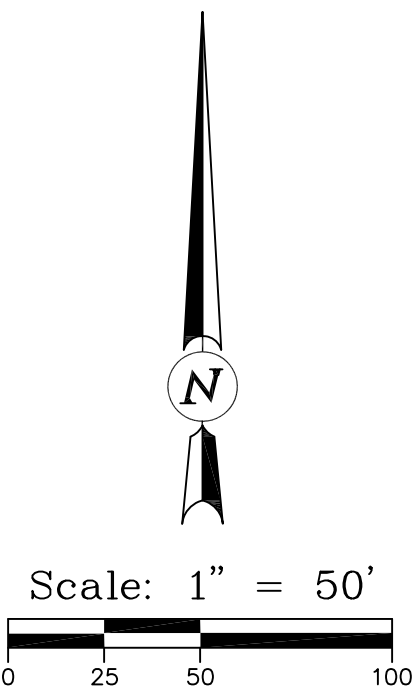
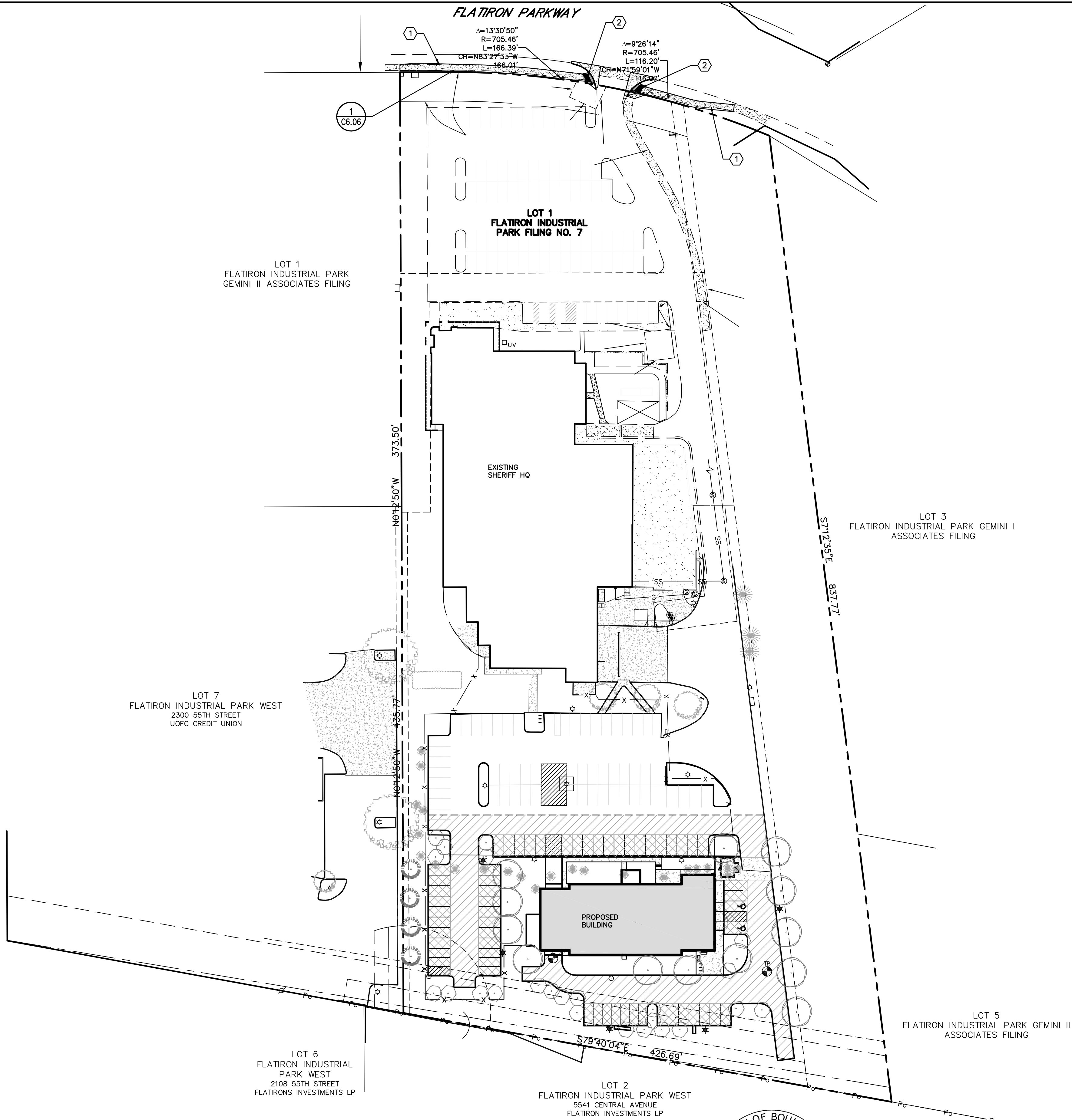
Project No: 12506B

COVER
SHEET

C1.01

KEYED NOTES ①

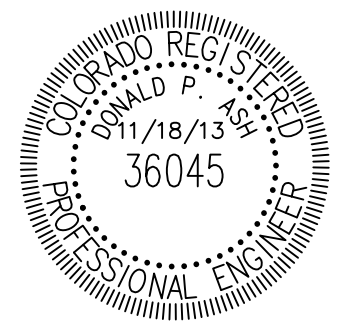
1. PROPOSED 6" CONCRETE SIDEWALK REPLACEMENT.
2. PROPOSED CURB RAMP REPLACEMENT.



CITY OF BOULDER
DEPARTMENT OF PUBLIC WORKS
APPROVED
ENGINEERING CONSTRUCTION DRAWING

ENGINEERING REVIEW MANAGER DATE
APPROVAL EXPIRES ONE YEAR AFTER DATE ABOVE

CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____



DRAWN BY: JAS CHECKED BY: DPA

**Boulder County Administrative Services
Building Services Division - Architects**

2020 13th Street
Boulder, Colorado 80302
Tel: 303-441-3957
Fax: 303-441-1718

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consulting engineers • surveyors
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JOB NO. 12506B DWG. NO. 12506B-1

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Building Services Division - Architects
P.O. Box 471
Boulder, Colorado 80306

Application Type: TEC DOC REVIEW
Case No.: TEC 2013-00046

**BOULDER COUNTY
CORONER FACILITY**

5600 Flatiron Parkway
Boulder, Colorado 80301

Project No: 12506B

OVERALL
SITE PLAN

C2.01

LOT 7
FLATIRON INDUSTRIAL PARK WEST
2300 55TH STREET
UOFC CREDIT UNION

A PART OF THE MILNE WAY
CUL-DE-SAC VACATED AND
ELECTRIC LINE EASEMENT
RETAINED FILM 1651 RECP.
NO. 01073979

UTILITY EASEMENT RESERVED ON
FILM 1651, RECEP. NO. 1073977

20' UTILITY EASEMENT FILM
1692 RECEPTION NO.01129232

LOT 6
FLATIRON INDUSTRIAL
PARK WEST
2108 55TH STREET
FLATIRONS INVESTMENTS LP

20' UTILITY EASEMENT FILM
1692 RECEPTION NO.01129232

38' ELECTRIC TRANSMISSION
LINE EASEMENT FILM 870,
RECEP. NO. 120453



38' R-O-W FOR ELECTRICAL
TRANSMISSION LINES FILM 663,
RECEP. NO. 908449

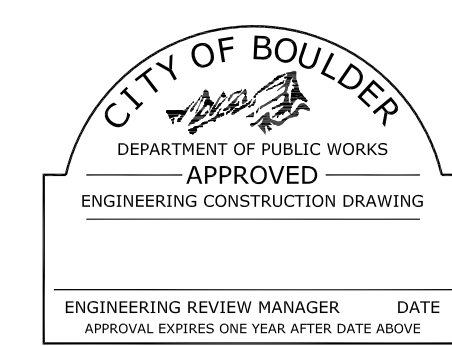
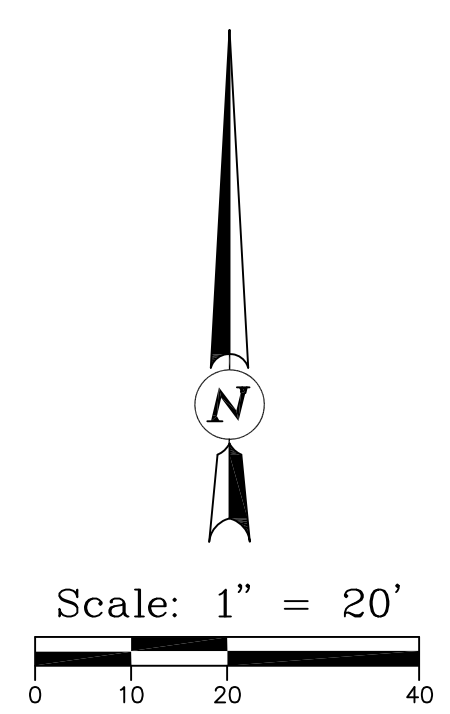
LOT 2
FLATIRON INDUSTRIAL PARK WEST
5541 CENTRAL AVENUE
FLATIRON INVESTMENTS LP

KEYED NOTES

1. CURB AND GUTTER.
2. ASPHALT PAVEMENT.
3. CONCRETE SIDEWALK.
4. TRASH ENCLOSURE.
5. CURB RAMP.
6. REINFORCED CONCRETE TRASH PAD.
7. PUBLIC ENTRANCE.
8. STAFF ENTRANCE.
9. SALLY PORT ENTRANCE.
10. SALLY PORT EXIT.
11. GENERATOR ENCLOSURE.
12. CHILLER ENCLOSURE.
13. NO PARKING/TURNAROUND AREA TO BE STRIPED.
14. INSTALL TWO (2) STANDARD CITY OF BOULDER BIKE RACK.
15. BENCHES.
16. INSTALL NEW/REUSED SECURITY FENCE.
17. SECURITY GATE.
18. STEPS. THREE (3) 6" RISERS.
19. FLOOD GATES WITH ASSOCIATED SUMP PUMP AND PIT.

LEGEND

-  LIGHT ASPHALT PAVEMENT
-  HEAVY ASPHALT PAVEMENT



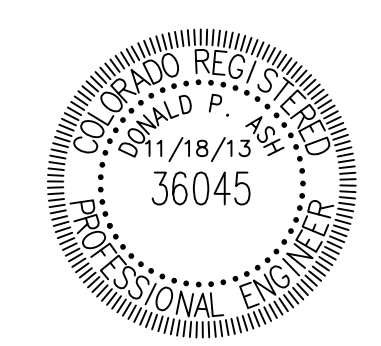
CITY OF BOULDER
PUBLIC WORKS DEPARTMENT

RECOMMENDATION FOR APPROVAL

WATER/SEWER _____

TRANSPORTATION _____

DRAINAGE _____



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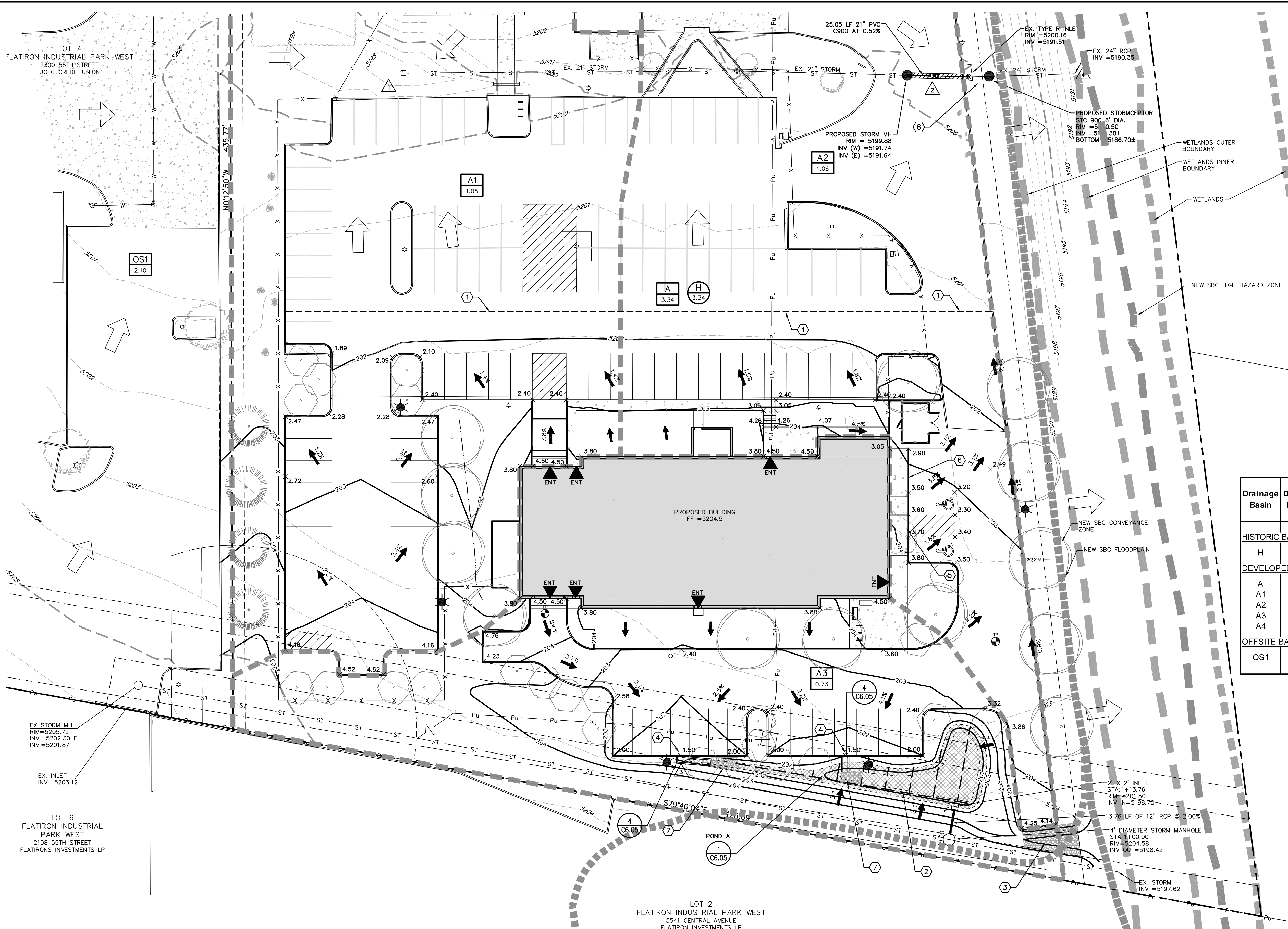
BOULDER COUNTY CORONER FACILITY

5600 Flatiron Parkway
Boulder, Colorado 80301

Project No: 12506B

CIVIL SITE
PLAN

C3.02



KEYED NOTES

- 1. SAWCUT AND MATCH EDGE OF EXISTING ASPHALT.
- 2. POROUS LANDSCAPE DETENTION FACILITY.
- 3. EMERGENCY OVERFLOW WEIR. THIS AREA TO ACCOMMODATE RUNOFF IN EXCESS OF THE 100-YEAR EVENT.
- 4. 12" CURB CUT.
- 5. CURB RAMP.
- 6. FLUSH CURB.
- 7. PROPOSED RIPRAP.
- 8. PROPOSED STORMCEPTOR FOR WATER QUALITY. SEE DETAILS.
- 9. FLOOD CONVEYANCE ZONE PER CITY OF BOULDER MAPPING.
- 10. WETLANDS BOUNDARY PER CITY OF BOULDER MAPPING.

GRADING NOTES

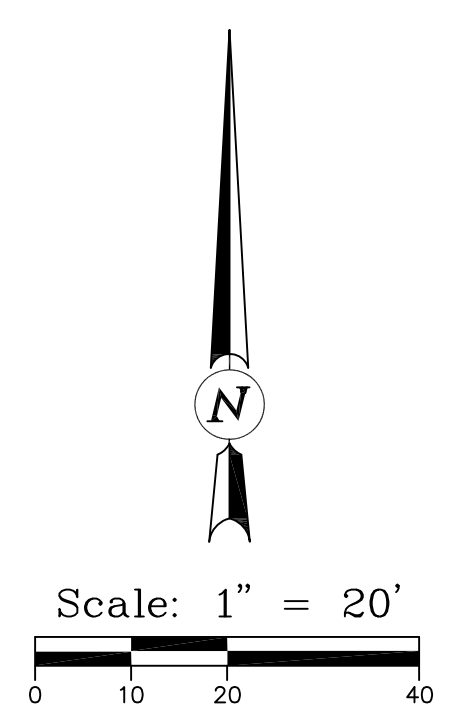
- 1. GRADE AWAY FROM BUILDINGS AT A MINIMUM 10% SLOPE IN THE FIRST 10 FEET AT LANDSCAPE AREAS AND AT A MINIMUM 2% SLOPE IN THE FIRST 10 FEET AT IMPERVIOUS AREAS, EXCEPT AS NOTED.
- 2. TOP OF FOUNDATION ELEVATION SHALL BE SET AT LEAST 0.7' ABOVE THE PROPOSED GRADING AT THE EXTERIOR OF THE FOUNDATION AT LANDSCAPE AREAS.
- 3. THE FEMA FLOOD INSURANCE RATE MAP, PANEL 08013C413J, DATED DECEMBER 18, 2012, INDICATES THAT THE ENTIRE SITE IS INSIDE THE 100-YEAR FLOODPLAIN.
- 4. ALL CITY UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF BOULDER STANDARD SPECIFICATIONS.
- 5. THE LOCATION OF THE ABOVE GROUND UTILITIES SHOWN HEREON ARE BASED ON THE TOPOGRAPHIC SURVEY BY SCOTT, COX & ASSOCIATES, INC. ON 11/12/12. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON SAID SURVEY AND INFORMATION PROVIDED BY OTHERS (WHICH MAY INCLUDE THE UTILITY OWNER OR UTILITY LOCATING SERVICES). SCOTT, COX & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR UTILITY INFORMATION PROVIDED BY OTHERS. SCOTT, COX & ASSOCIATES, INC. RECOMMENDS THAT THE LOCATION OF THE UTILITIES BE FIELD VERIFIED PRIOR TO ANY DIGGING ON, OR ADJACENT TO THE SUBJECT PROPERTY.
- 6. BENCH MARK: CITY OF BOULDER A-14; FOUND CHISELED 'L' ON AN INLET BOX LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF 55TH STREET AND FLATIRON PARKWAY. ELEVATION = 5203.03 CITY OF BOULDER VERTICAL DATUM.
- 7. IF REQUIRED, ALL APPLICABLE CITY AND/OR STATE PERMITS PERTAINING TO THE DISCHARGE OF GROUNDWATER MUST BE OBTAINED PRIOR TO PREPARATION OF BUILDING PERMIT PLANS.
- 8. PARKING GARAGE DRAINS SHALL BE ROUTED THROUGH SAND AND GREASE SEPARATORS PRIOR TO DISCHARGE TO THE SANITARY SEWER SYSTEM.
- 9. THE BUILDING WILL BE FLOOD PROOF PER CITY OF BOULDER FLOODPLAIN DEVELOPMENT REQUIREMENTS.

RUNOFF TABLE

Drainage Basin	Design Point	Area (AC)	t _c (min)	C _s	I _s (in/hr)	Q _s (cfs)	C ₁₀₀	I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)
HISTORIC BASINS									
H	- -	3.34	13.08	0.53	3.65	6.43	0.76	7.25	18.27
DEVELOPED BASINS									
A		3.34	11.88	0.67	3.90	8.68	0.82	7.70	21.10
A1	1	1.08	13.08	0.56	3.90	2.35	0.77	7.70	6.39
A2	2	1.06	6.66	0.77	5.10	4.19	0.87	9.90	9.19
A3	3	0.73	7.09	0.55	4.85	1.97	0.77	9.70	5.45
A4	4	0.47	5.21	0.85	5.70	2.27	0.90	10.60	4.46
OFFSITE BASINS									
OS1	- -	2.10	7.99	0.80	3.75	6.30	0.85	7.40	13.21

WATER QUALITY POND

Stage	Volume Required (CF)	Volume Provided (CF)	Water Surface Elevation (FT)
WQCV	440	838	5201.5



CITY OF BOULDER
DEPARTMENT OF PUBLIC WORKS
APPROVED
ENGINEERING CONSTRUCTION DRAWING

ENGINEERING REVIEW MANAGER DATE
APPROVAL EXPIRES ONE YEAR AFTER DATE ABOVE

CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____

PROFESSIONAL ENGINEER
36045

DRAWN BY: JAS CHECKED BY: DPA

Boulder County Administrative Services
Building Services Division - Architects

2020 13th Street
Boulder, Colorado 80302
Tel: 303-441-3957
Fax: 303-441-1718

REVISION DATE
Tec Doc Review 07/15/2013
Tec Doc Resubmittal 10/07/2013
Tec Doc Resubmittal 11/18/2013

Applicant Information
Boulder County Administrative Services
Building Services Division - Architects
P.O. Box 471
Boulder, Colorado 80306

Application Type: TEC DOC REVIEW
Case No.: TEC 2013-00046

BOULDER COUNTY CORONER FACILITY

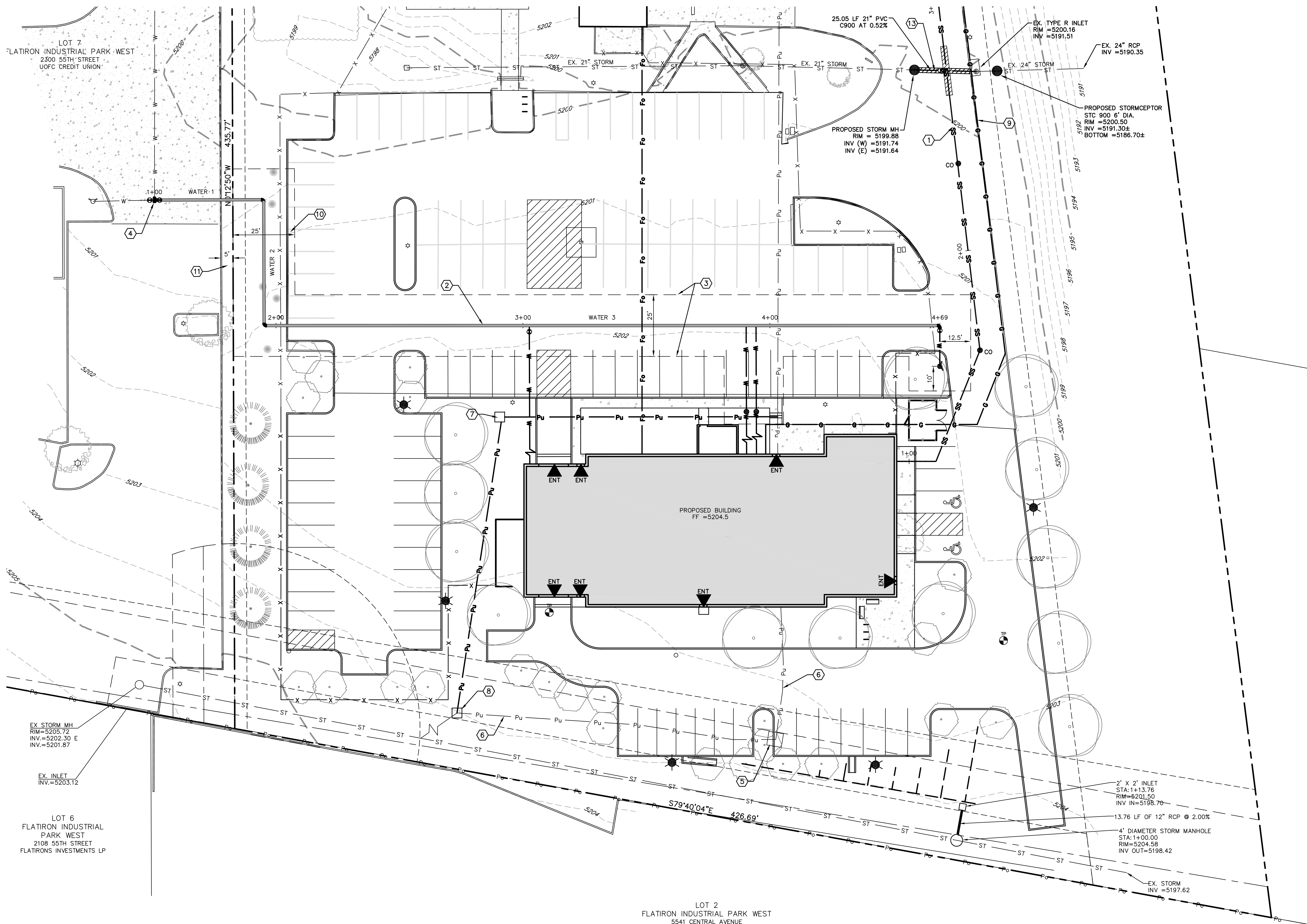
5600 Flatiron Parkway
Boulder, Colorado 80301

Project No: 12506B

GRADING AND DRAINAGE PLAN

C3.03

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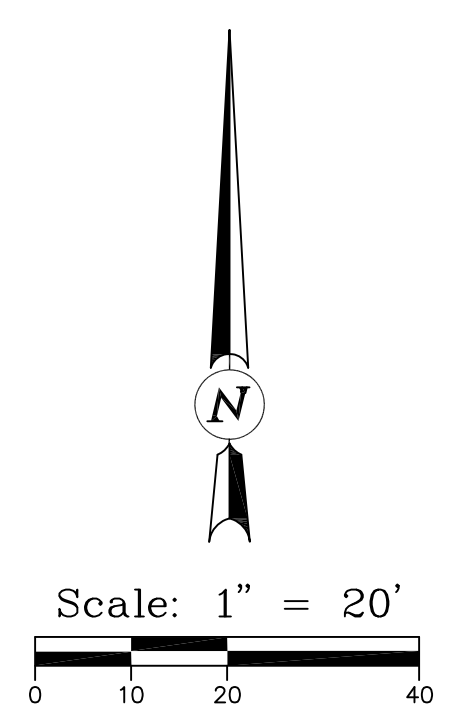


KEYED NOTES

- 1. PROPOSED SANITARY SEWER SERVICE.
- 2. PROPOSED WATER MAIN EXTENSION.
- 3. PROPOSED PUBLIC UTILITY EASEMENT.
- 4. CONNECT TO EXISTING WATER MAIN.
- 5. EXISTING SWITCH CABINET TO BE REMOVED.
- 6. EXISTING UNDERGROUND ELECTRIC TO BE REMOVED.
- 7. PROPOSED TRANSFORMER.
- 8. PROPOSED SWITCH CABINET.
- 9. PROPOSED GAS SERVICE.
- 10. PROPOSED UTILITY EASEMENT.
- 11. EXISTING 5' DRAINAGE EASEMENT.
- 12. FIBER OPTIC AND TELECOMMUNICATION FROM SHERIFF'S BUILDING.
- 13. PROPOSED STORM SEWER.

UTILITY NOTES

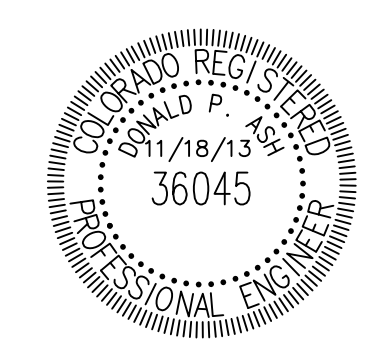
- 1. ALL CITY UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF BOULDER STANDARD SPECIFICATIONS.
- 2. WATER, FIRELINE, SEWER TAPS, AND SERVICE LINE SIZES SHALL BE DETERMINED AT THE TIME OF BUILDING PERMIT APPLICATION.
- 3. ALL NEW WATER AND SANITARY SEWER SERVICE TAPS TO EXISTING MAINS SHALL BE MADE BY CITY CREWS AT THE DEVELOPER'S EXPENSE.
- 4. ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE DONE IN A WAY SO AS TO MINIMIZE DISRUPTION IN SERVICE TO EXISTING USERS.
- 5. THE LOCATION OF THE ABOVE GROUND UTILITIES SHOWN HEREON ARE BASED ON THE FIELD SURVEY BY SCOTT, COX & ASSOCIATES, INC. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON SAID SURVEY AND INFORMATION PROVIDED BY OTHERS (WHICH MAY INCLUDE THE UTILITY OWNER OR UTILITY LOCATING SERVICES). SCOTT, COX & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR UTILITY INFORMATION PROVIDED BY OTHERS. SCOTT, COX & ASSOCIATES, INC. RECOMMENDS THAT THE LOCATION OF THE UTILITIES BE FIELD VERIFIED PRIOR TO ANY DIGGING ON, OR ADJACENT TO THE SUBJECT PROPERTY.
- 6. BENCH MARK: CITY OF BOULDER A-14; FOUND CHISELED 'L' ON AN INLET BOX LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF 55TH STREET AND FLATIRON PARKWAY. ELEVATION = 5203.03 CITY OF BOULDER VERTICAL DATUM.



CITY OF BOULDER
DEPARTMENT OF PUBLIC WORKS
APPROVED
ENGINEERING CONSTRUCTION DRAWING

ENGINEERING REVIEW MANAGER DATE
APPROVAL EXPIRES ONE YEAR AFTER DATE ABOVE

CITY OF BOULDER
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Fax: 303-441-1718



SCOTT, COX & ASSOCIATES, INC.
consulting engineers • surveyors
1530 55th Street • Boulder, Colorado 80303
(303) 444 - 3051

JOB NO. 12506B DWG. NO. 12506B-1

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P.O. Box 471
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Case No.: **TEC 2013-00046**

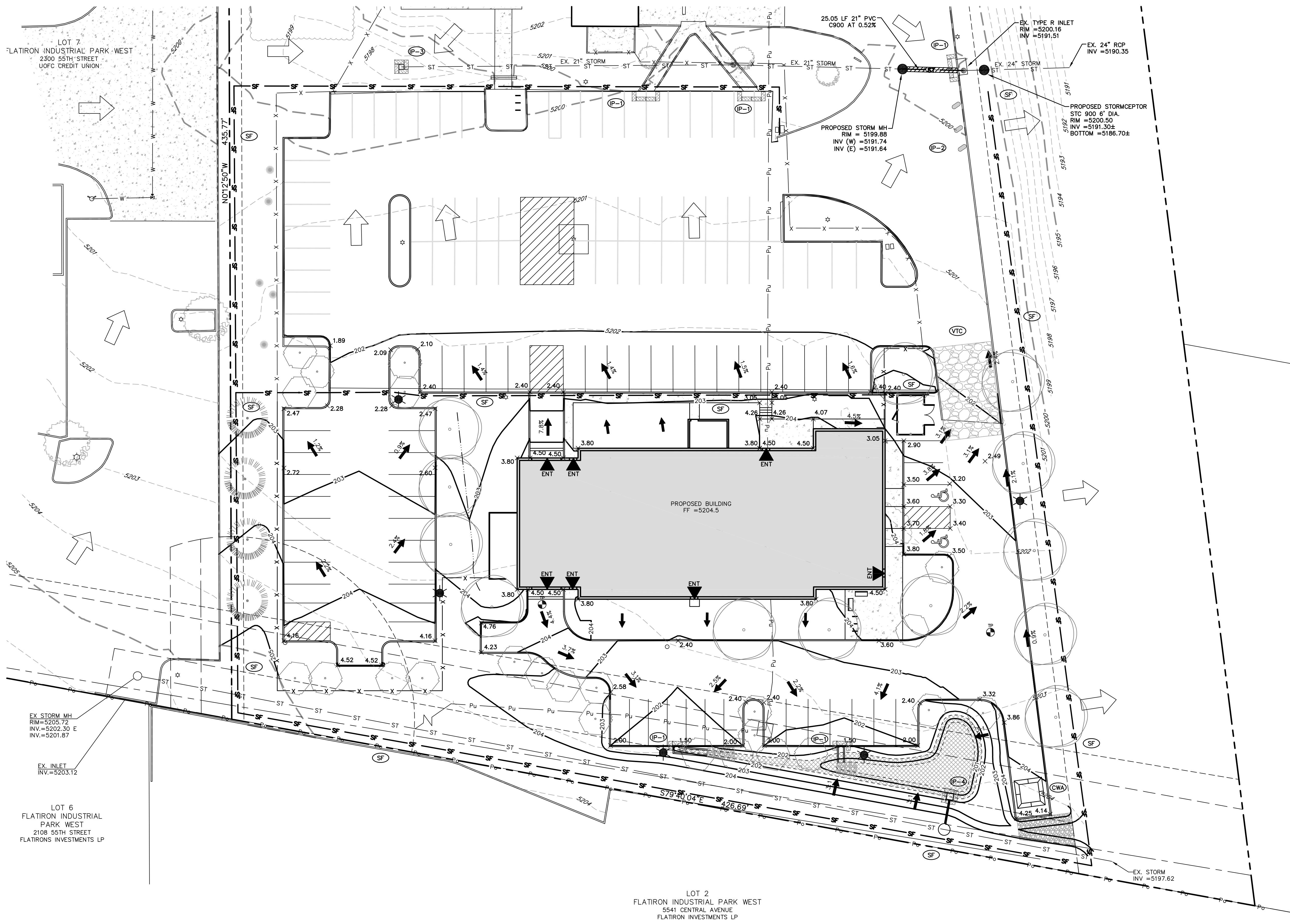
BOULDER COUNTY CORONER FACILITY

5600 Flatiron Parkway
Boulder, Colorado 80301

Project No: 12506B

UTILITY PLAN

C3.04



LEGEND

- GRAVEL CONSTRUCTION ENTRANCE (VTC)
- STRAW BALE BARRIER (SB)
- INLET PROTECTION (IP)
- SILT FENCE (SF)
- CONCRETE WASHOUT AREA (CWA)
- CURB ROCK SOCKS

NARRATIVE SITE DESCRIPTION

- CONSTRUCTION ACTIVITIES SHALL INCLUDE DRAINAGE FACILITIES; OVERLOT GRADING; INSTALLATION OF WATER AND SANITARY SERVICES, STORM AND DRY UTILITIES; PAVEMENT; BUILDING; AND LANDSCAPE CONSTRUCTION;
- SEQUENCE OF CONSTRUCTION WILL BE AS FOLLOWS: 1.)OVERLOT GRADING; 2.) INSTALLATION OF WATER AND SANITARY SERVICES, STORM DRAINAGE FACILITIES AND DRY UTILITIES; 3.) BUILDING CONSTRUCTION; AND 4.) CONSTRUCTION OF PARKING, DRIVES, WALKS, AND LANDSCAPING.
- THE TOTAL PROJECT AREA IS 3.34 ACRES, OF WHICH APPROXIMATELY 50% WILL UNDERGO CONSTRUCTION ACTIVITIES.
- THE 10-YEAR RUNOFF COEFFICIENT BEFORE CONSTRUCTION IS 0.60; THE RUNOFF COEFFICIENT AFTER CONSTRUCTION IS 0.72.
- THE SITE IS CURRENTLY DEVELOPED.
- THERE ARE NO KNOW POLLUTION SOURCES CURRENTLY ON THIS SITE OR PROPOSED FOR THIS PROJECT.
- THE ONLY PROPOSED NON-STORMWATER COMPONENTS OF DISCHARGE ARE LANDSCAPE IRRIGATION RETURN FLOWS.

LOT 7
FLATIRON INDUSTRIAL PARK WEST
2300 55TH STREET
UOFC CREDIT UNION

EX STORM MH
RIM=5205.72
INV.=5202.30 E
INV.=5201.87

EX. INLET
INV.=5203.12

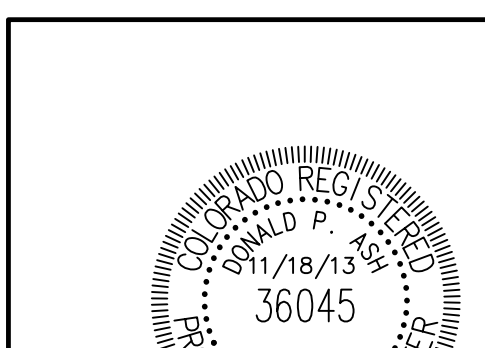
LOT 6
FLATIRON INDUSTRIAL
PARK WEST
2108 55TH STREET
FLATIRONS INVESTMENTS LP

LOT 2
FLATIRON INDUSTRIAL PARK WEST
5541 CENTRAL AVENUE
FLATIRON INVESTMENTS LP

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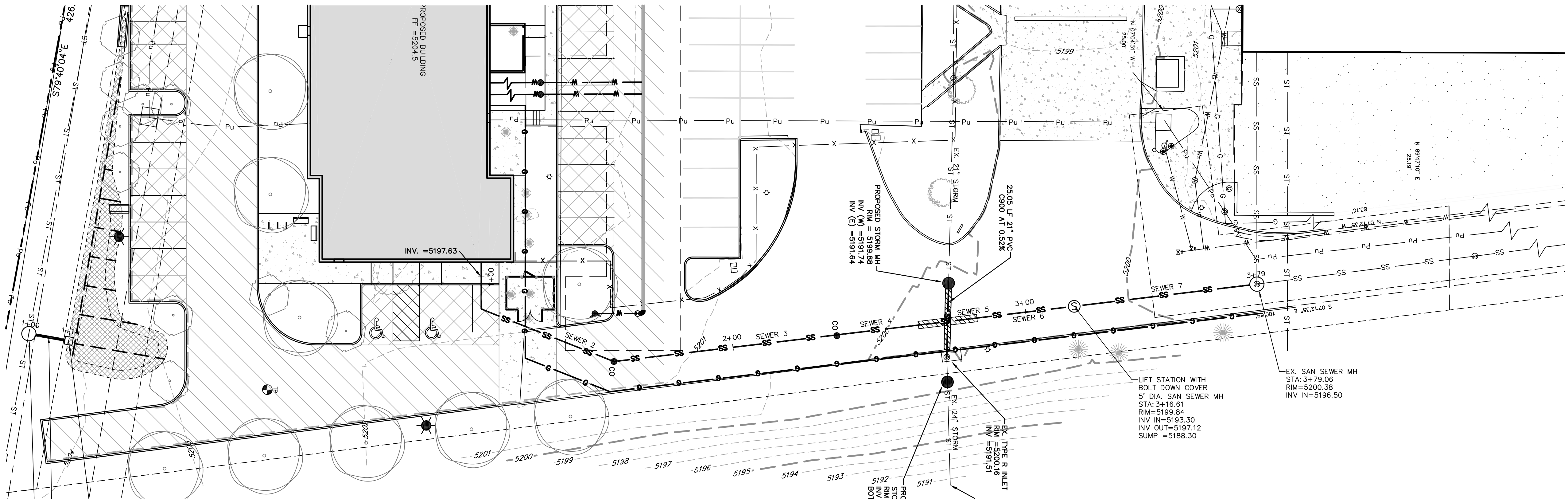
BOULDER COUNTY CORONER FACILITY

5600 Flatiron Parkway
Boulder, Colorado 80301

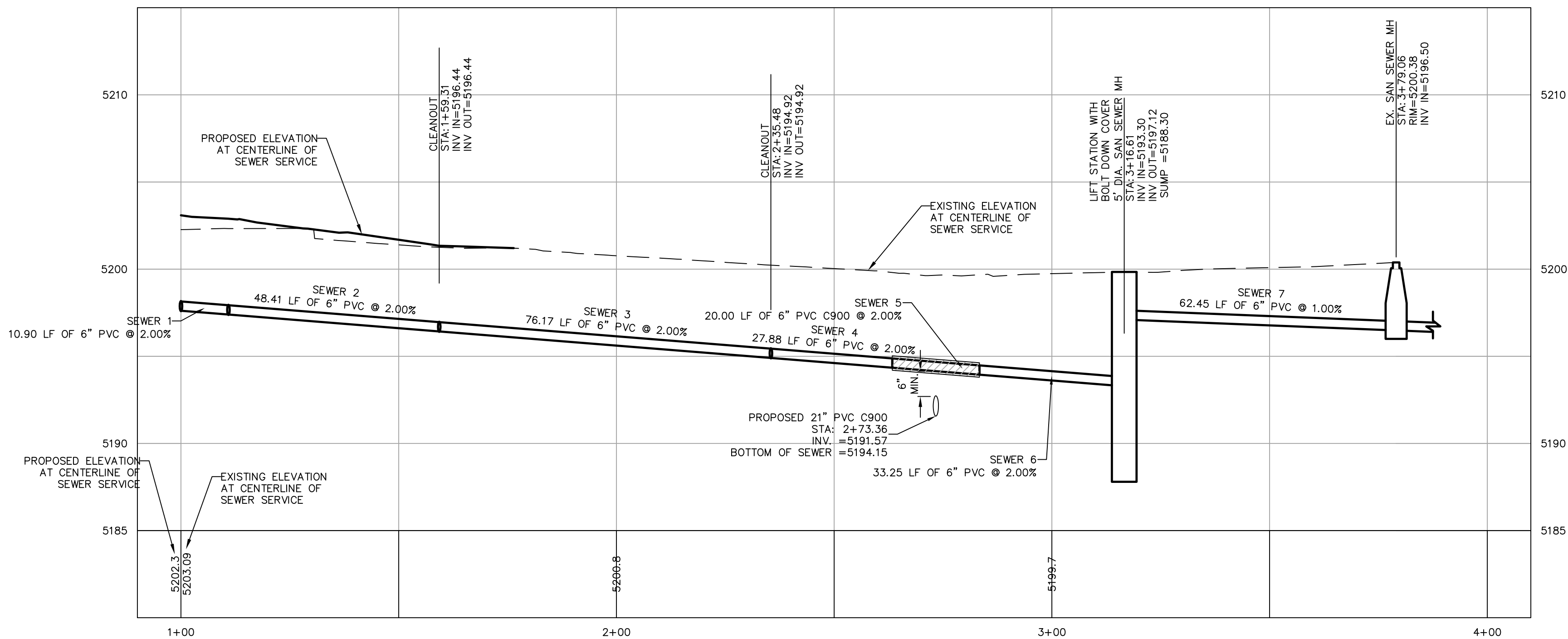
Project No: 12506B

STORMWATER MANAGEMENT PLAN

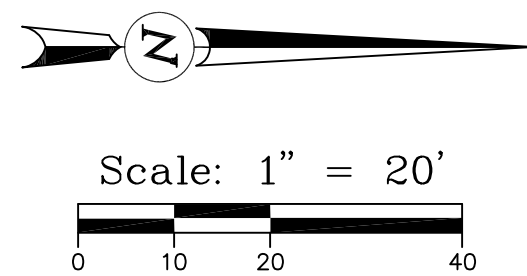
C3.05



1
SANITARY
SEWER PLAN
SCALE: 1" = 20'



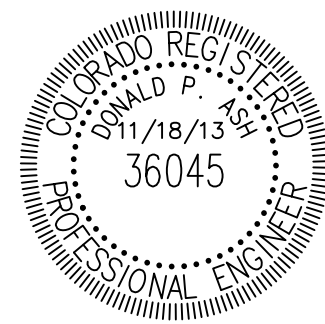
2
SANITARY
SEWER PROFILE
SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 5'



CITY OF BOULDER
DEPARTMENT OF PUBLIC WORKS
APPROVED
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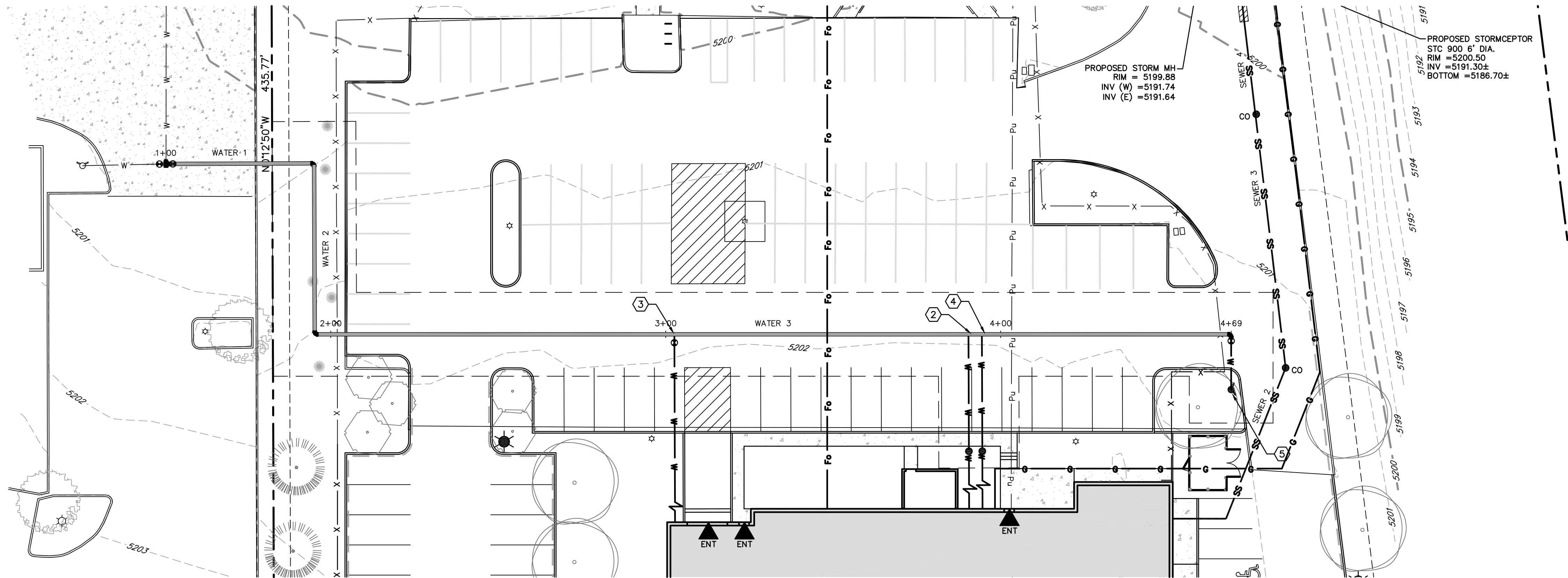
**BOULDER COUNTY
CORONER FACILITY**

5600 Flatiron Parkway
Boulder, Colorado 80301

Project No: 12506B

**SANITARY
SEWER PLAN
AND PROFILE**

C4.01

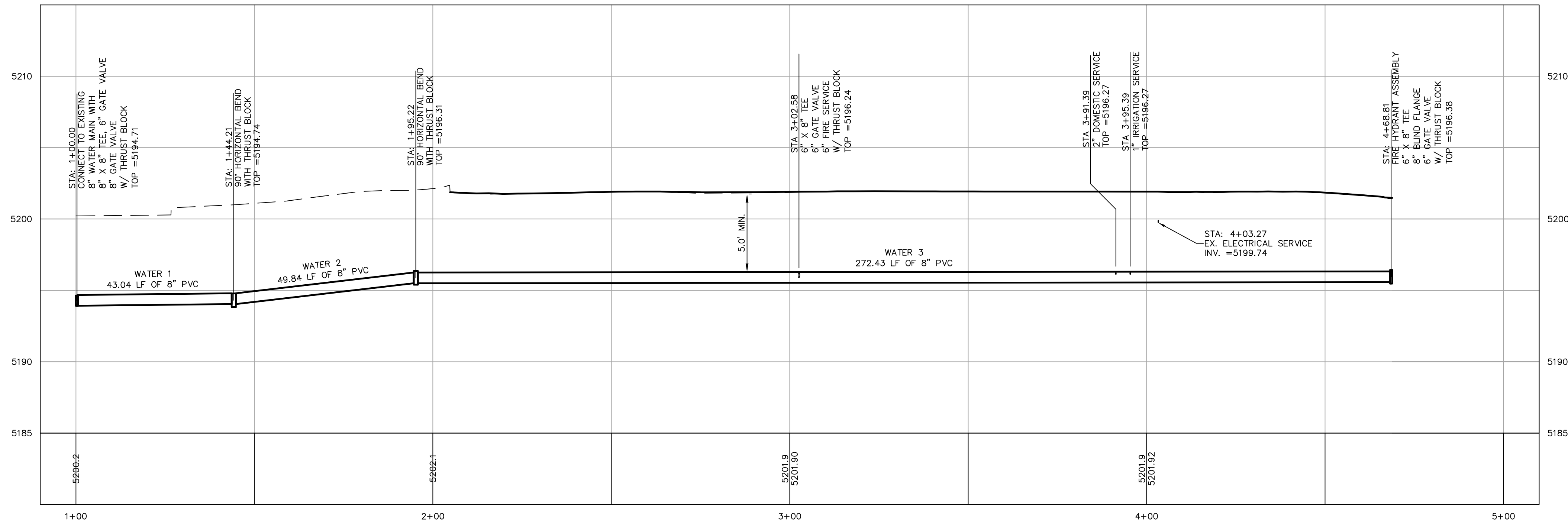


KEYED NOTES ①

1. CONNECT TO EXISTING WATER MAIN.
2. PROPOSED DOMESTIC WATER SERVICE AND METER PIT.
3. PROPOSED FIRE SERVICE.
4. PROPOSED IRRIGATION SERVICE AND METER PIT.
5. PROPOSED FIRE HYDRANT ASSEMBLY.

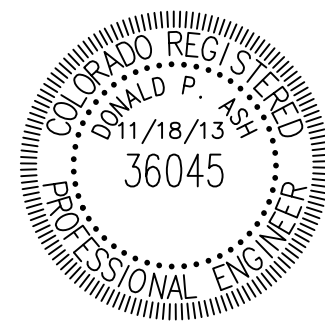
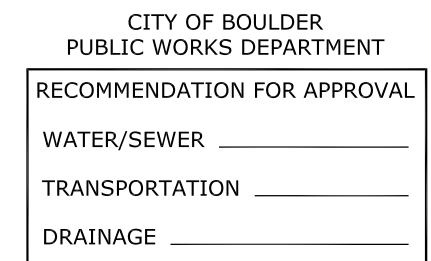
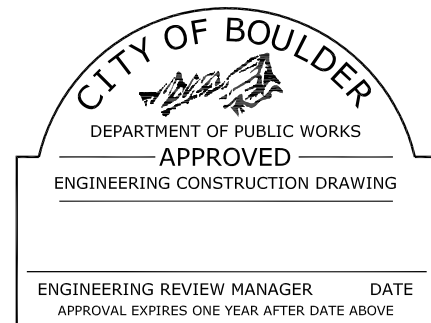
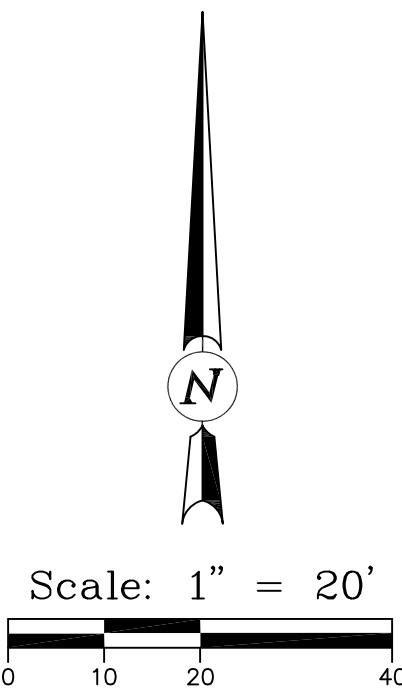
① WATER MAIN PLAN

SCALE: 1" = 20'



② WATER MAIN PROFILE

SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 5'



DRAWN BY: JAS CHECKED BY: DPA

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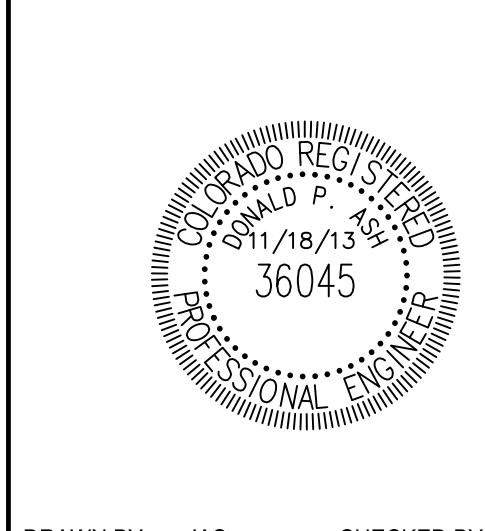
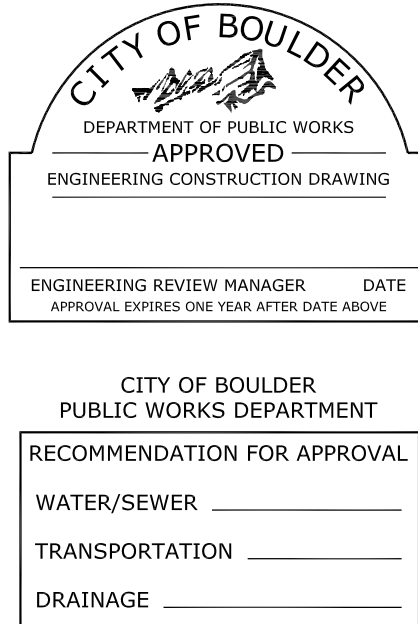
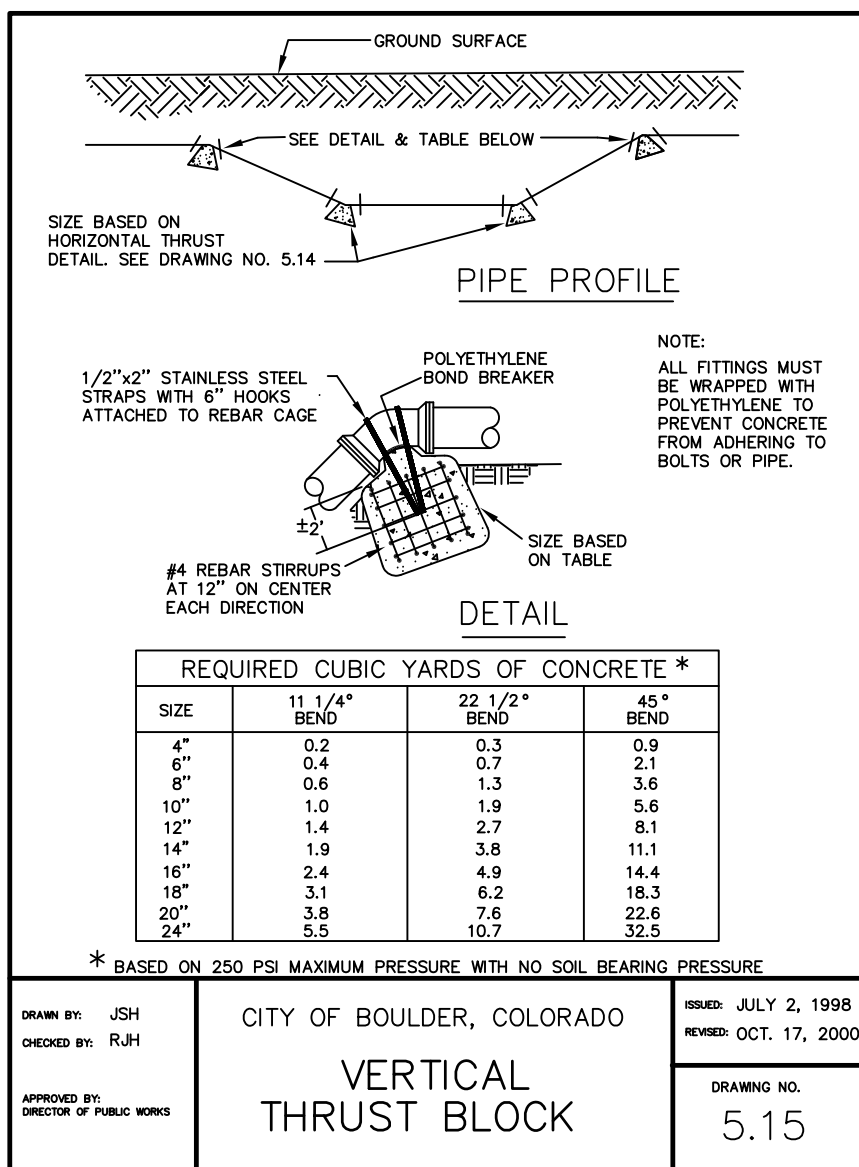
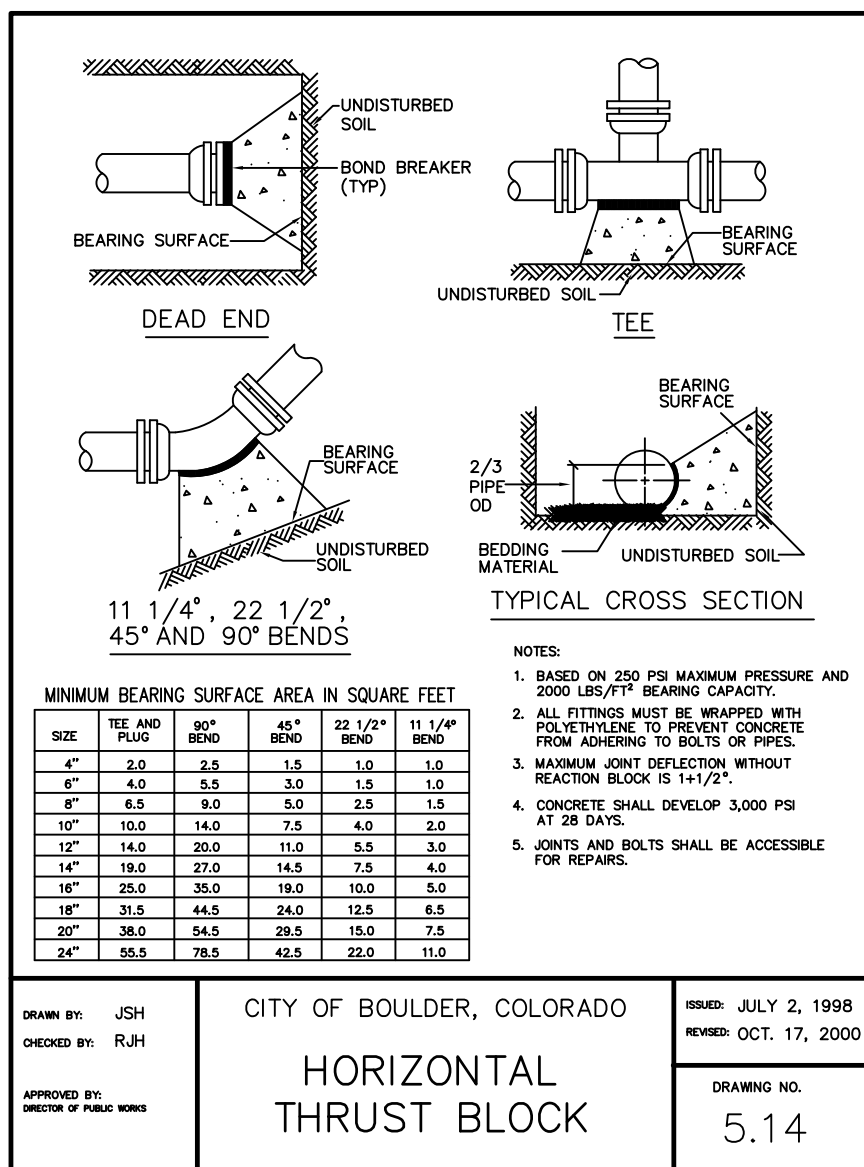
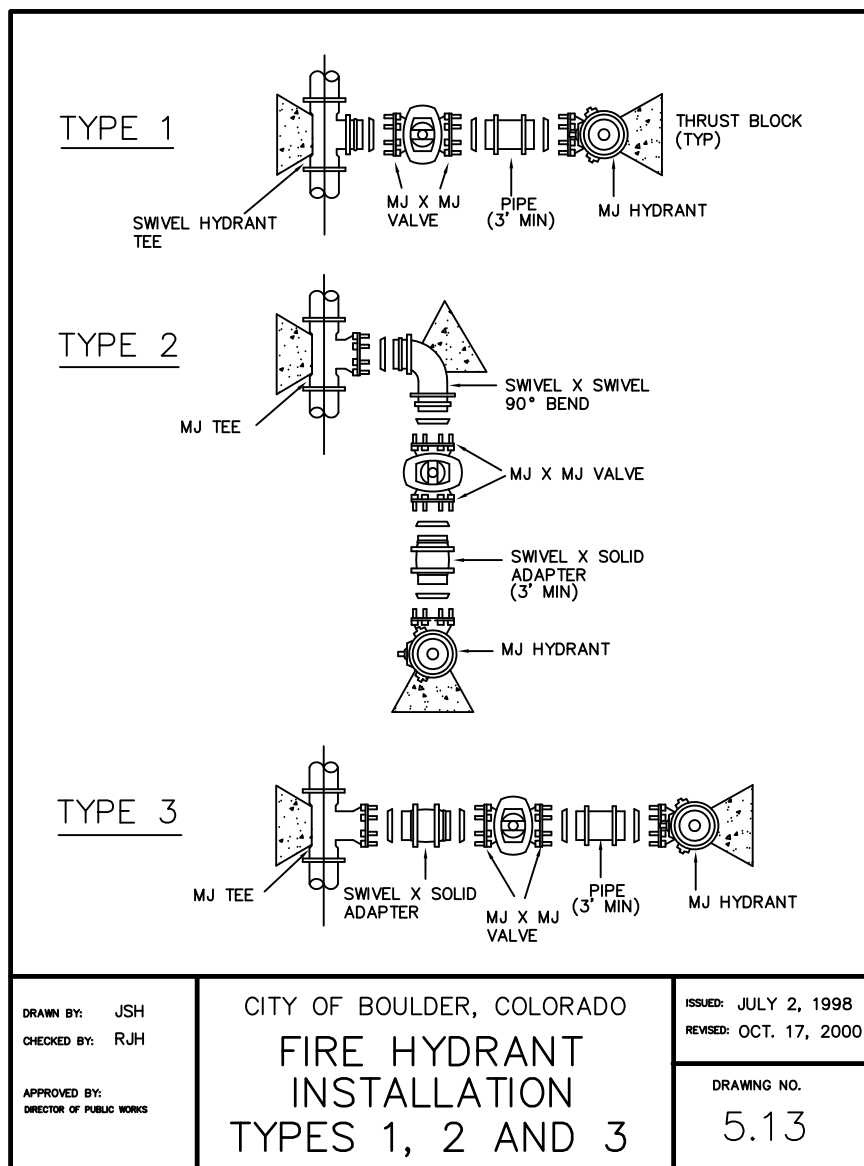
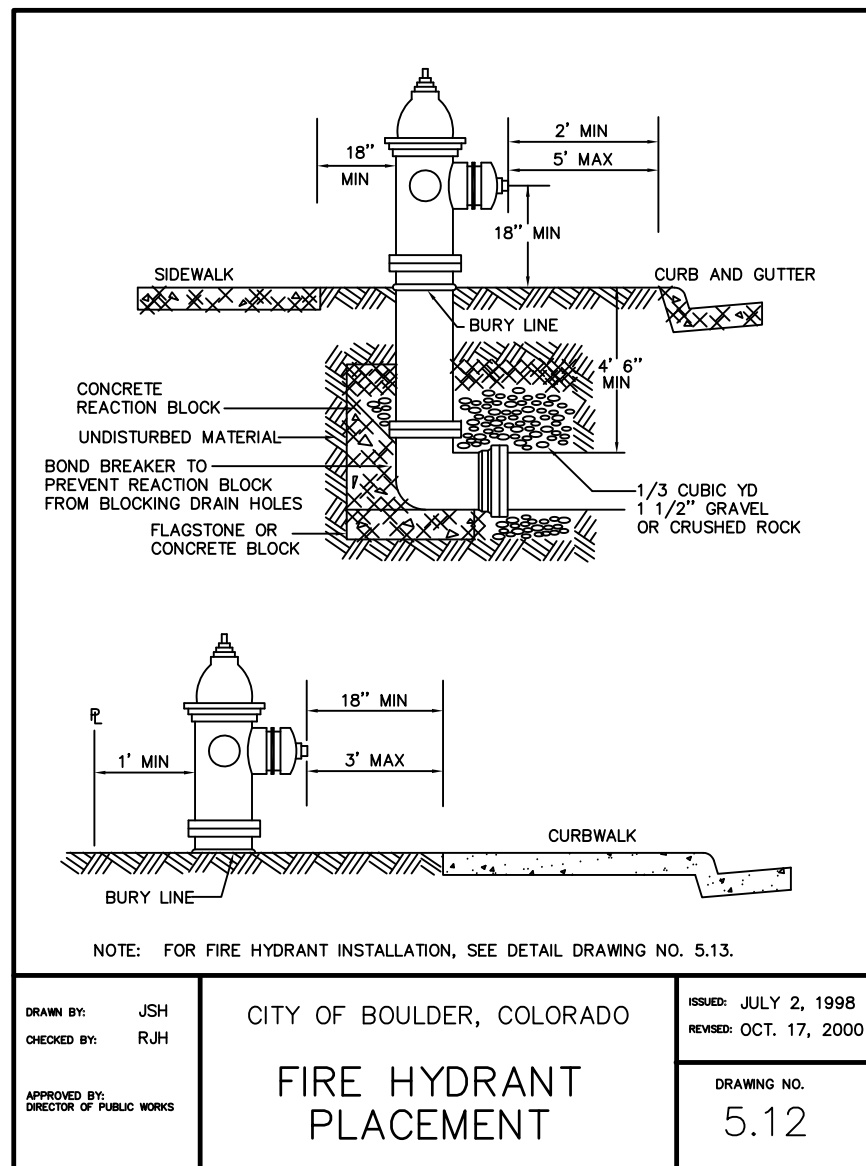
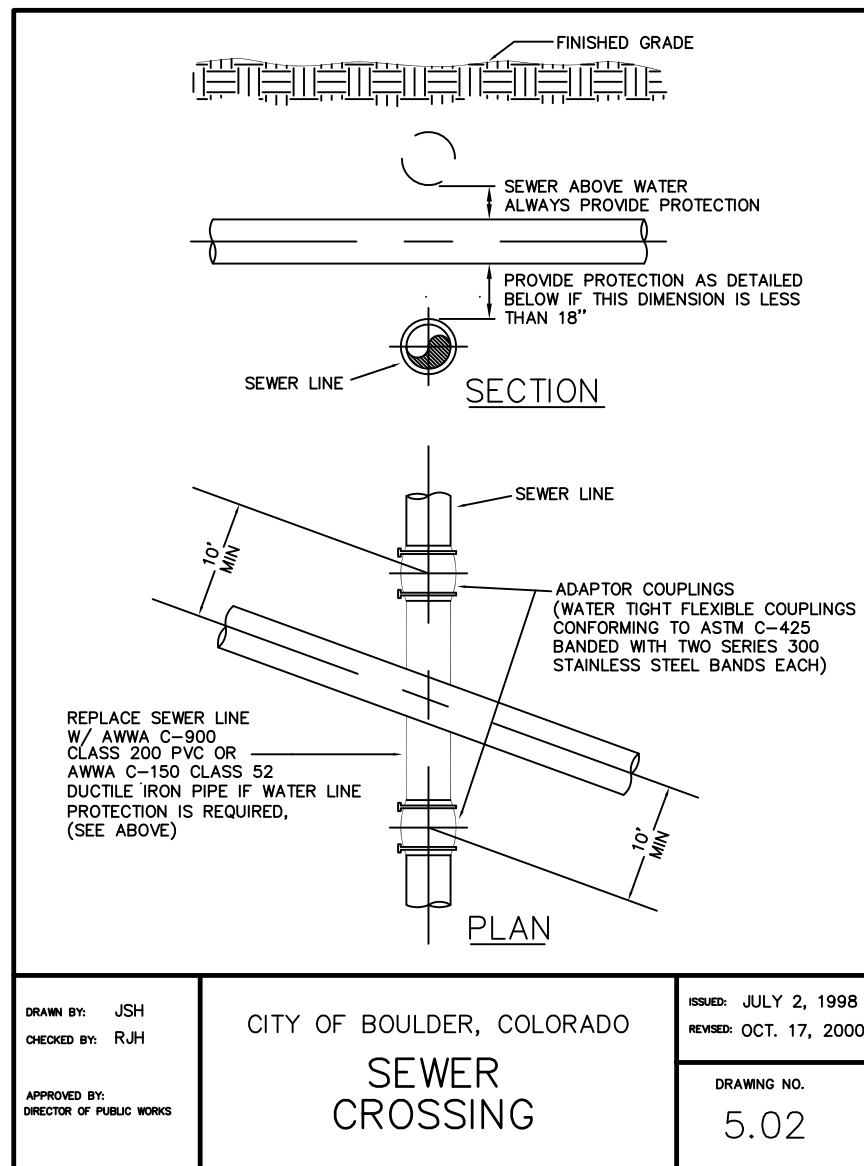
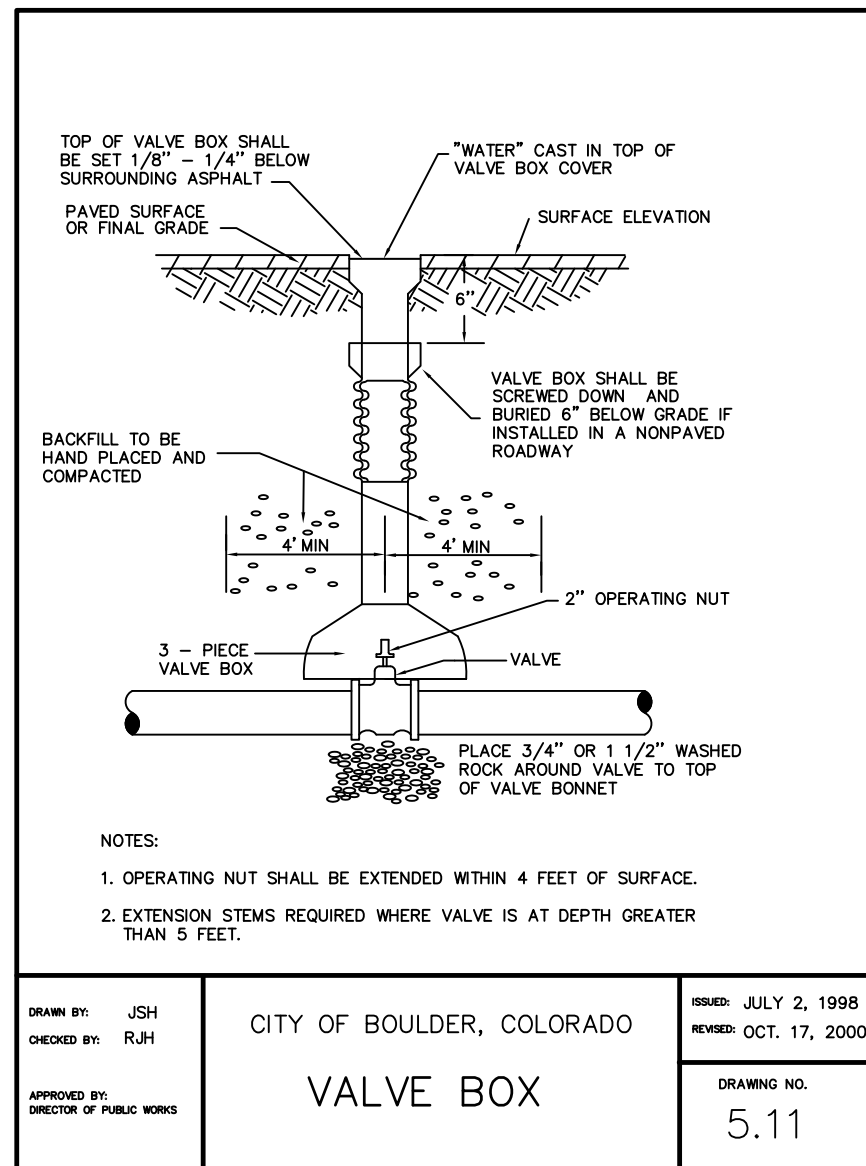
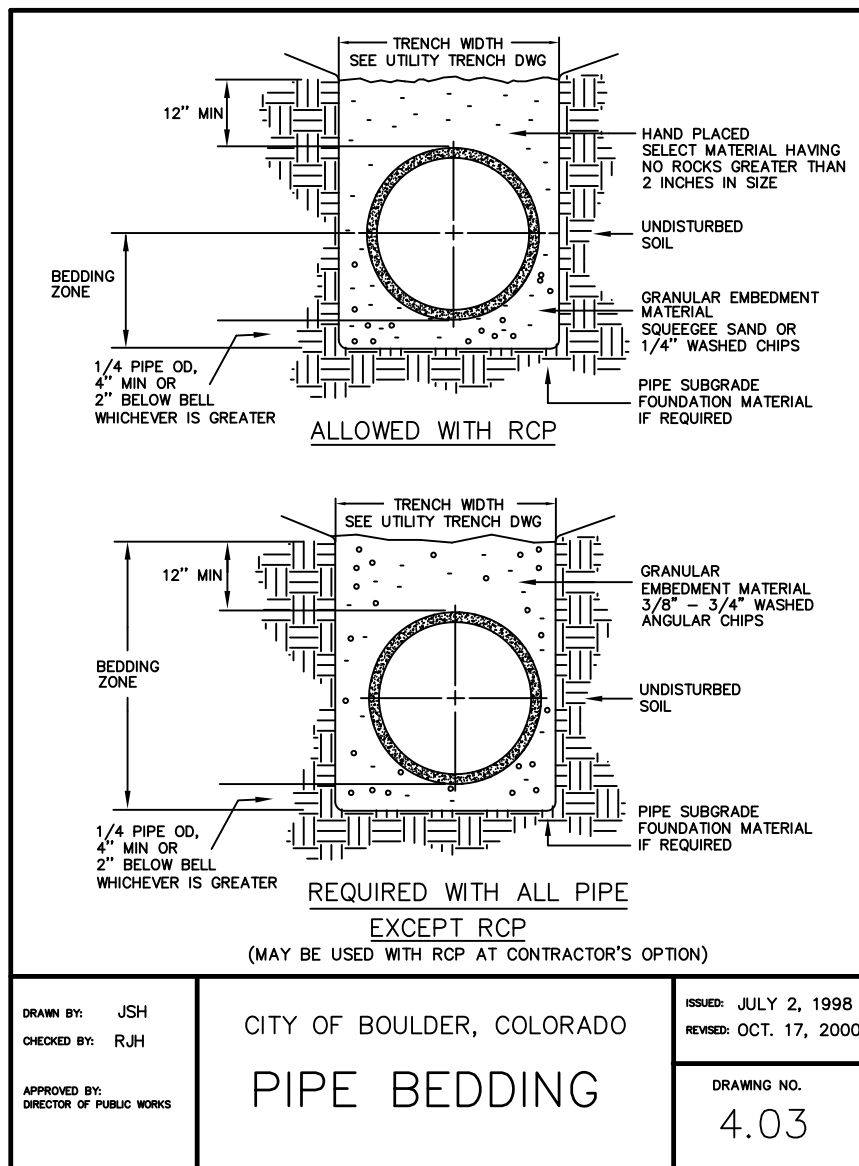
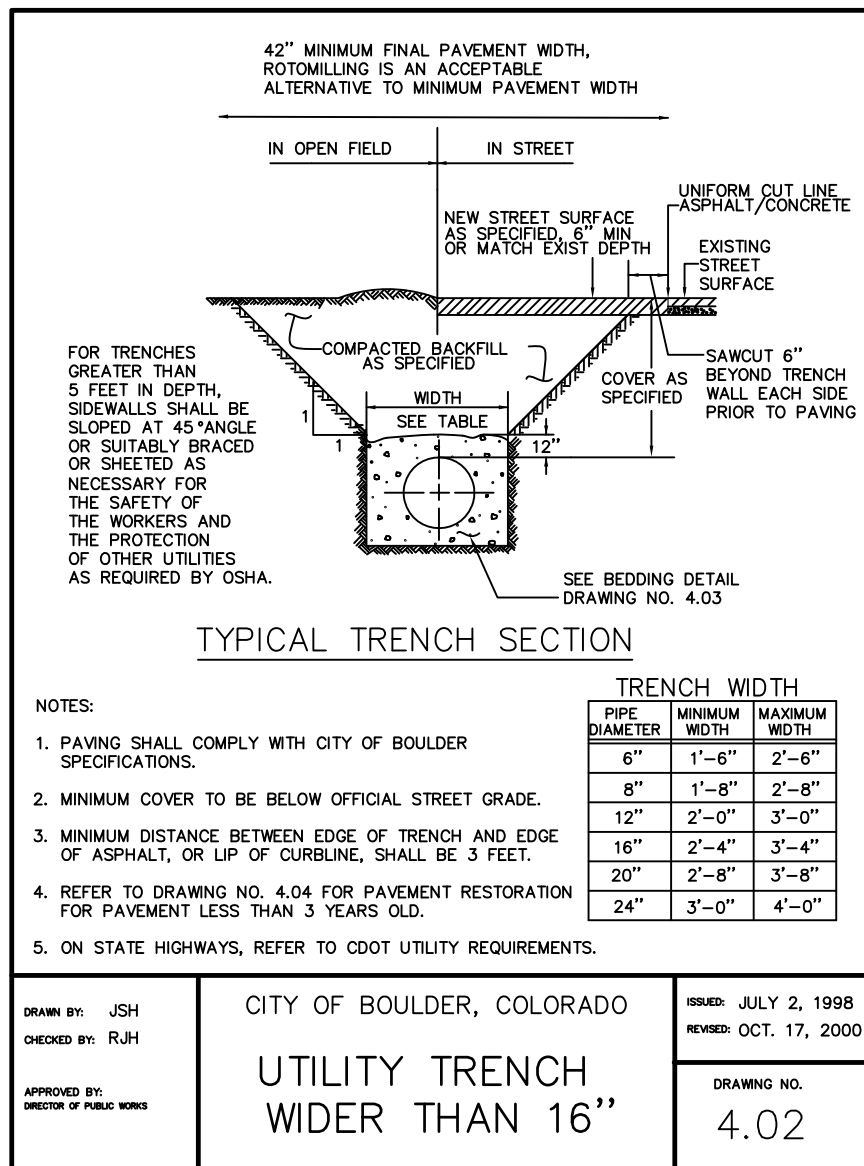
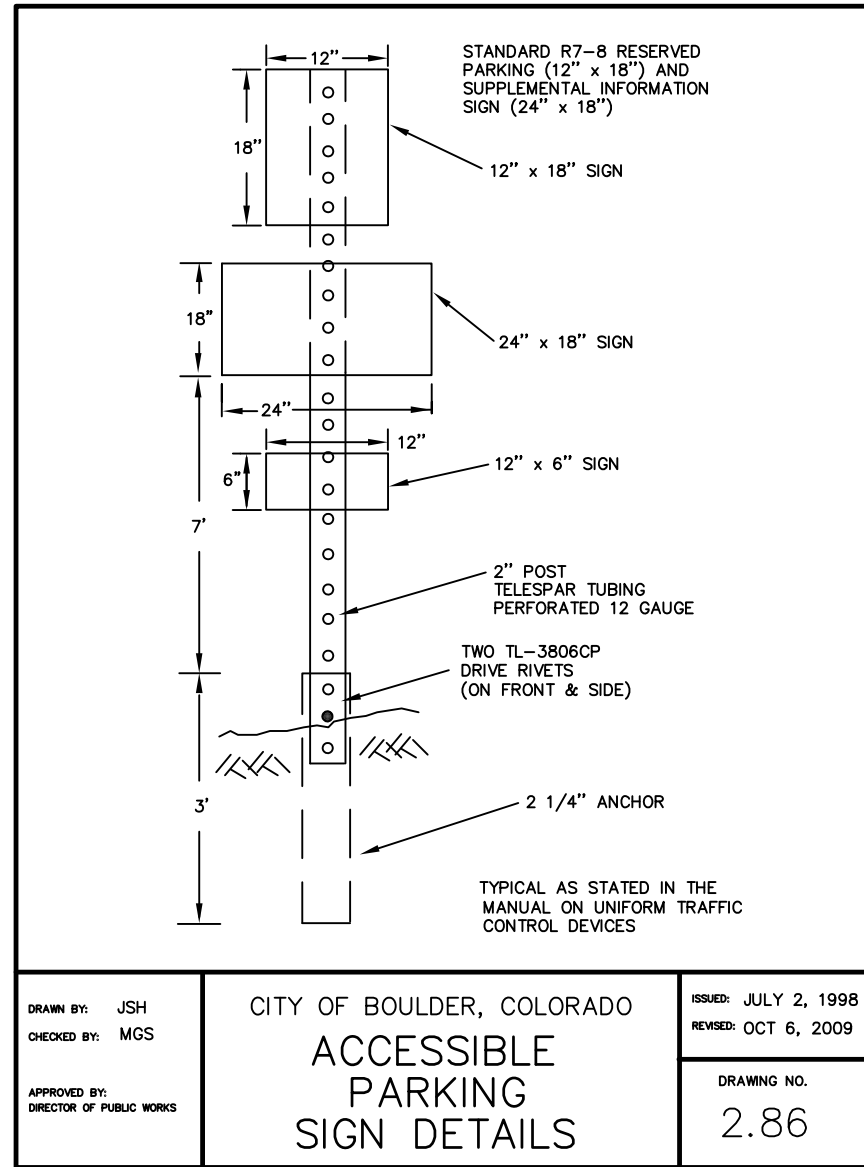
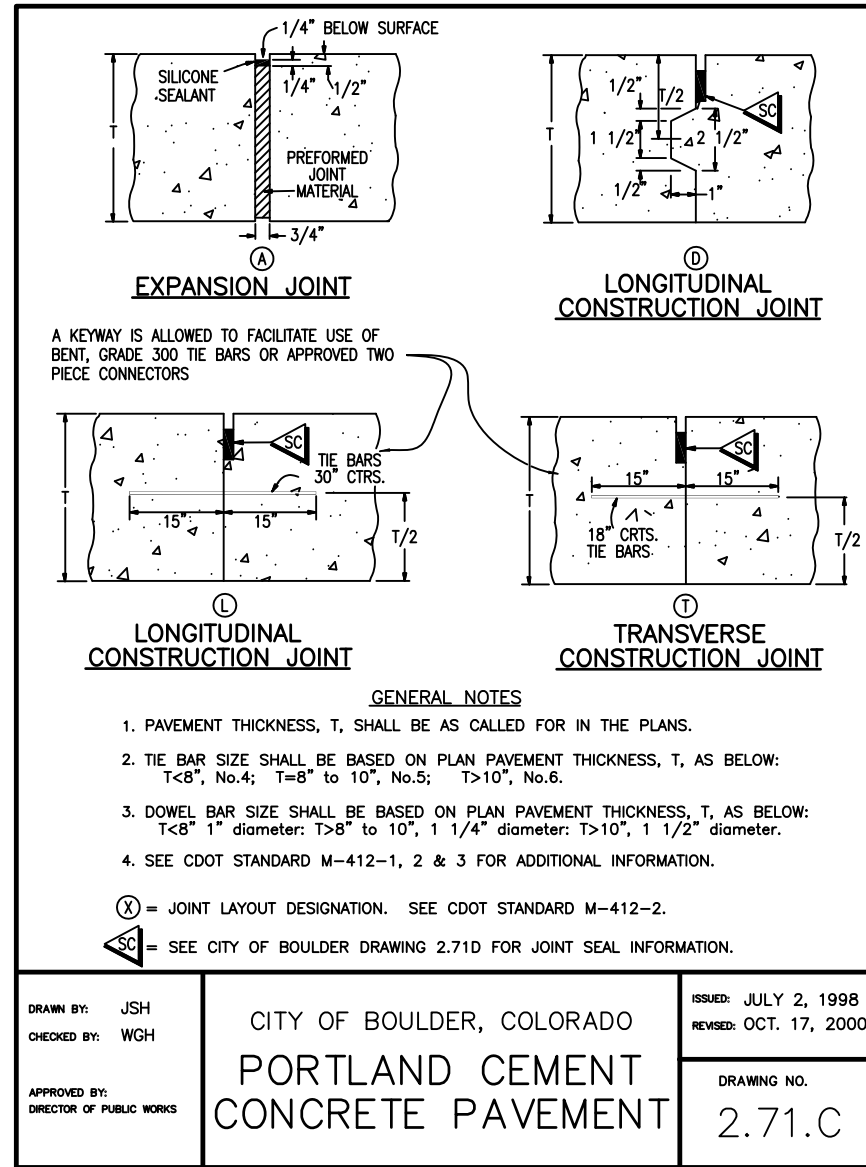
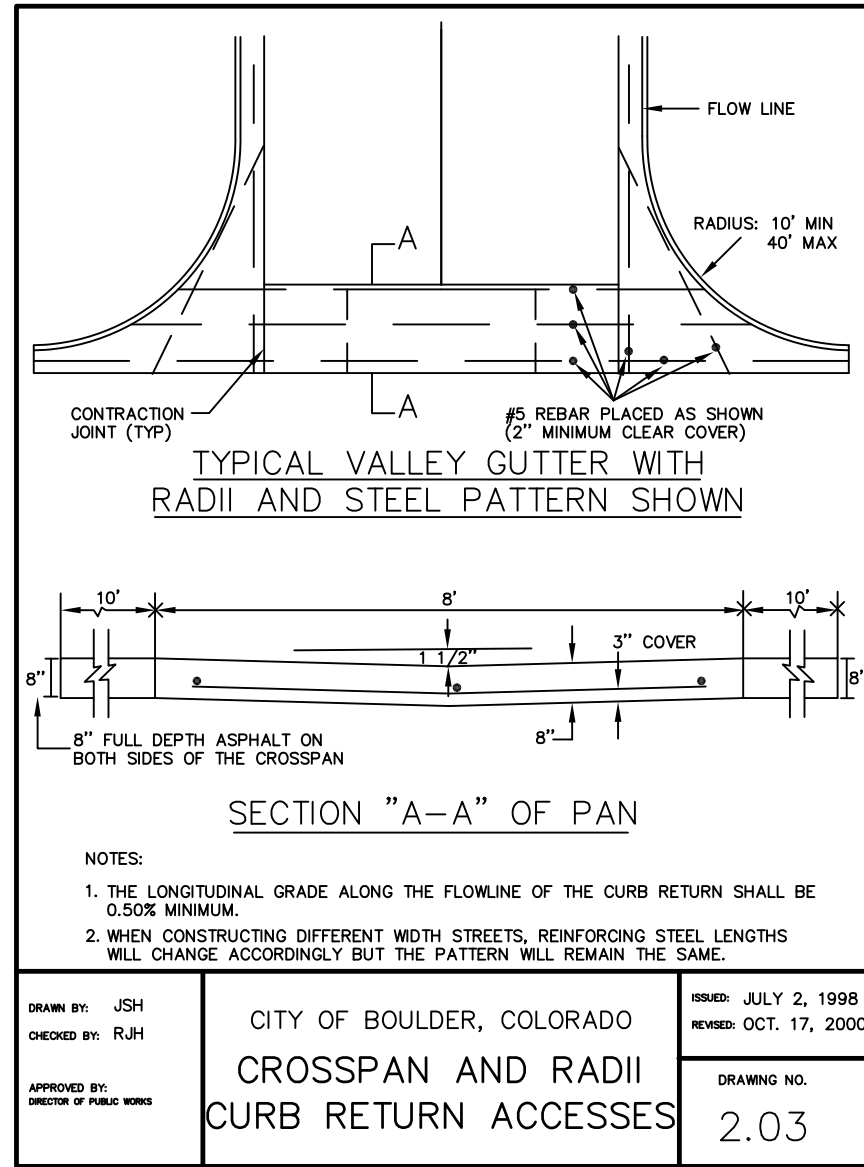
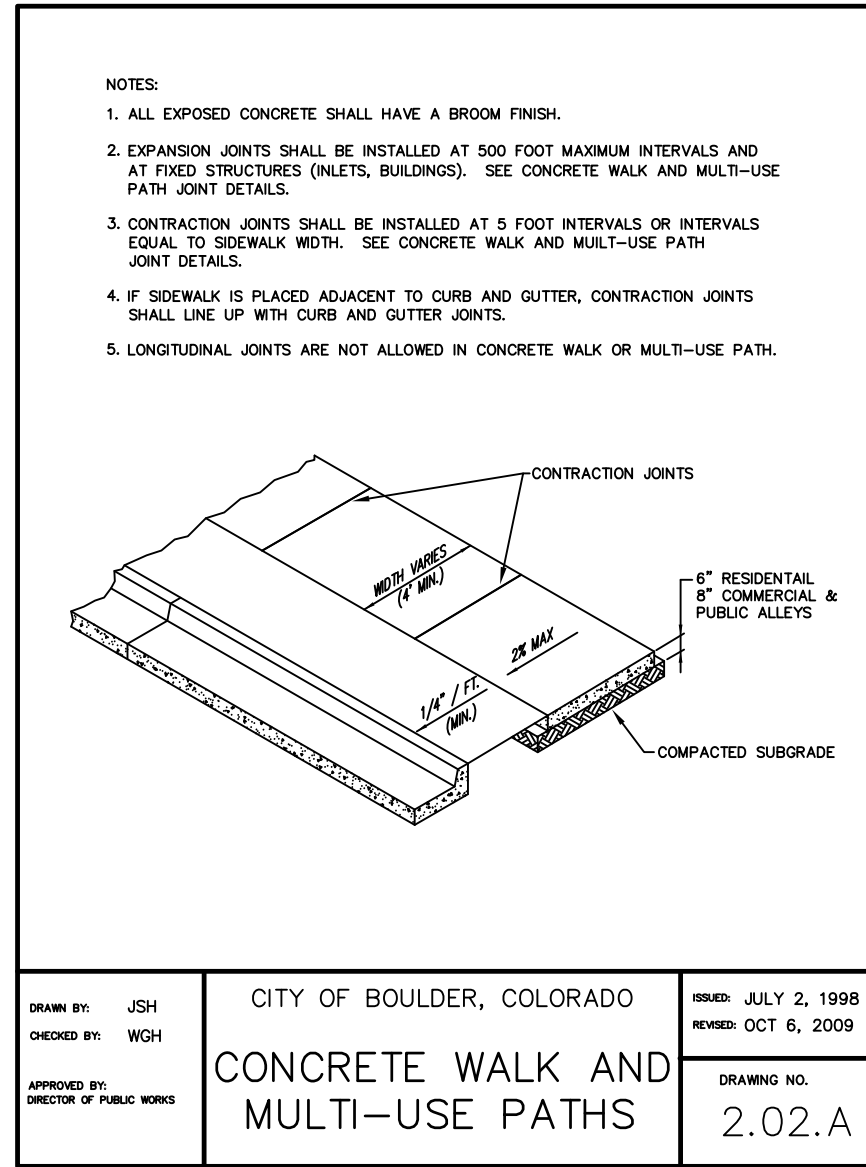
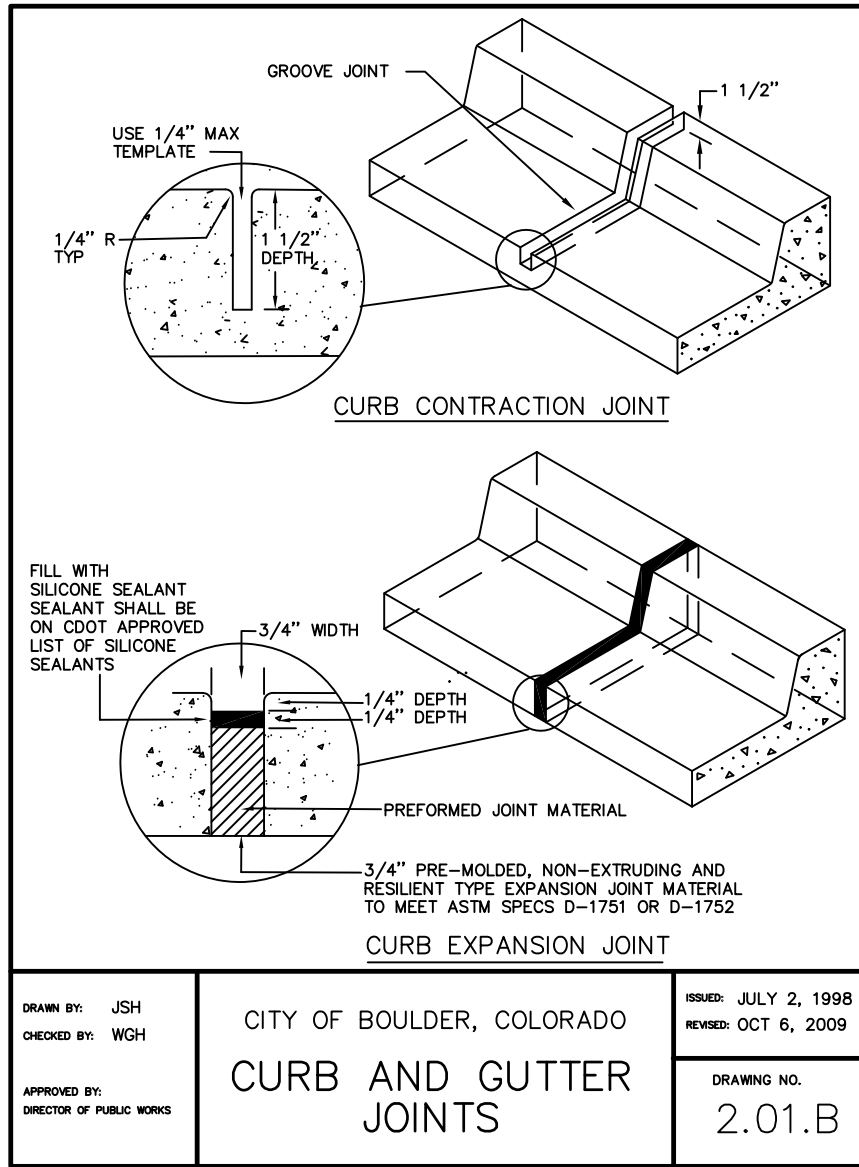
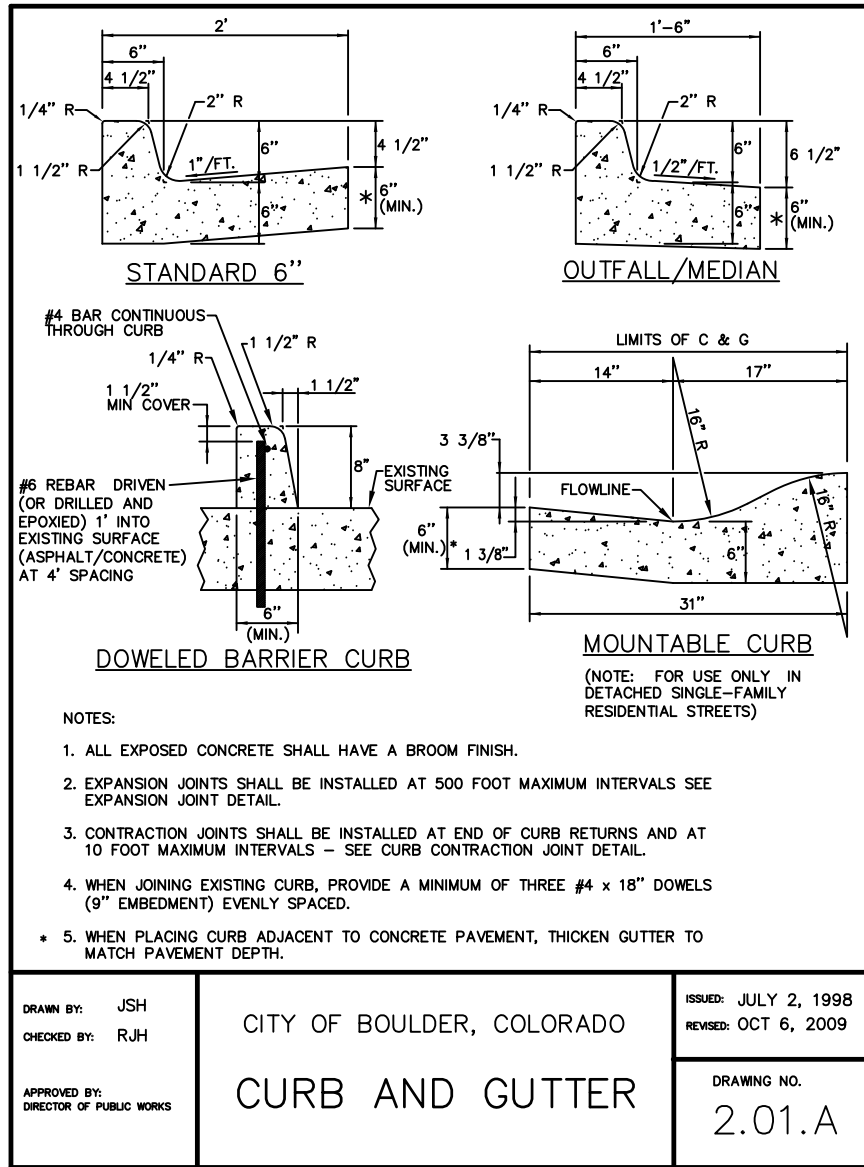
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BOULDER COUNTY
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Project No: 12506B

WATER MAIN
PLAN AND
PROFILE

C5.01



Boulder County Administrative Services Building Services Division - Architects

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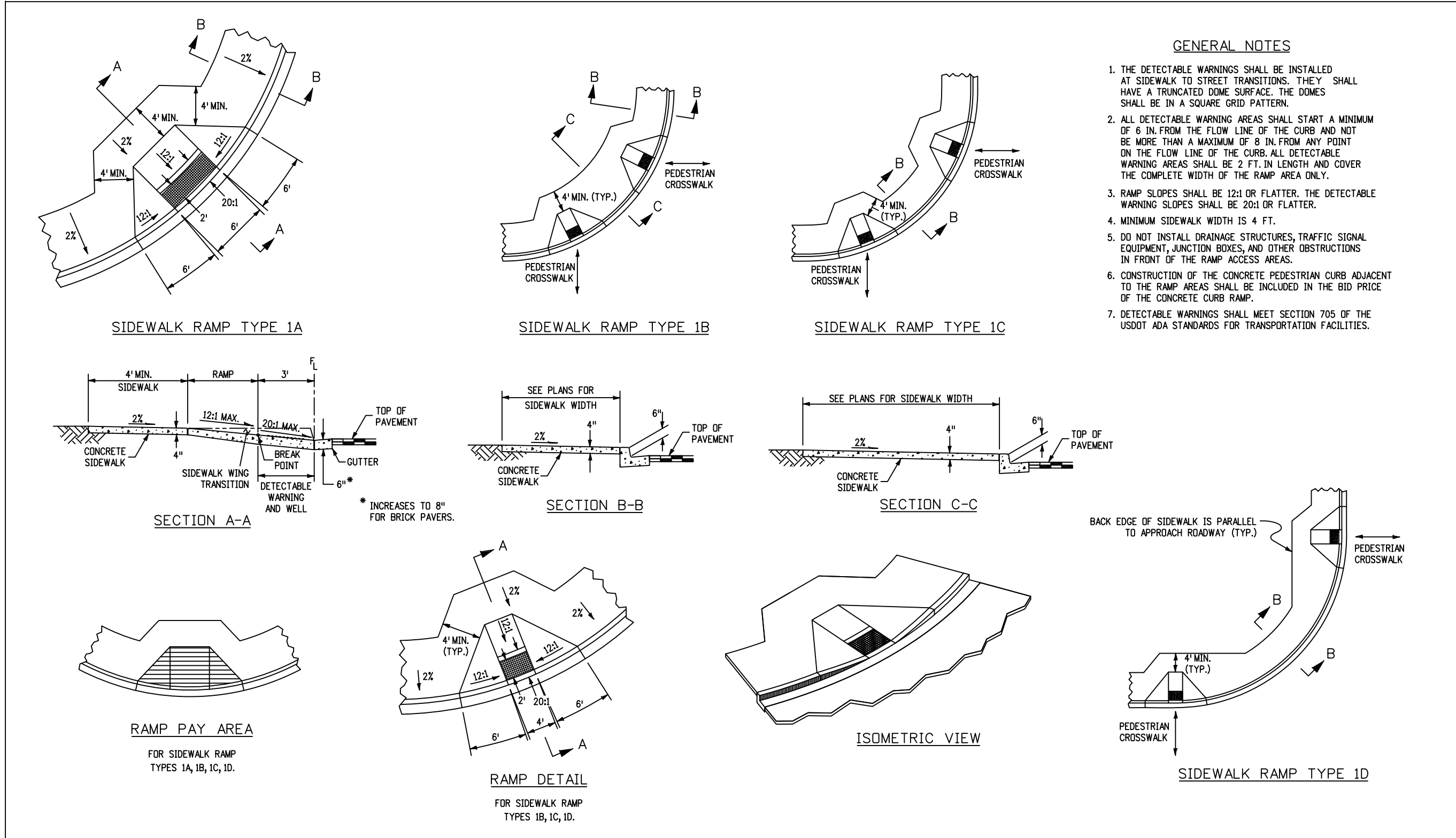
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BOULDER COUNTY CORONER FACILITY

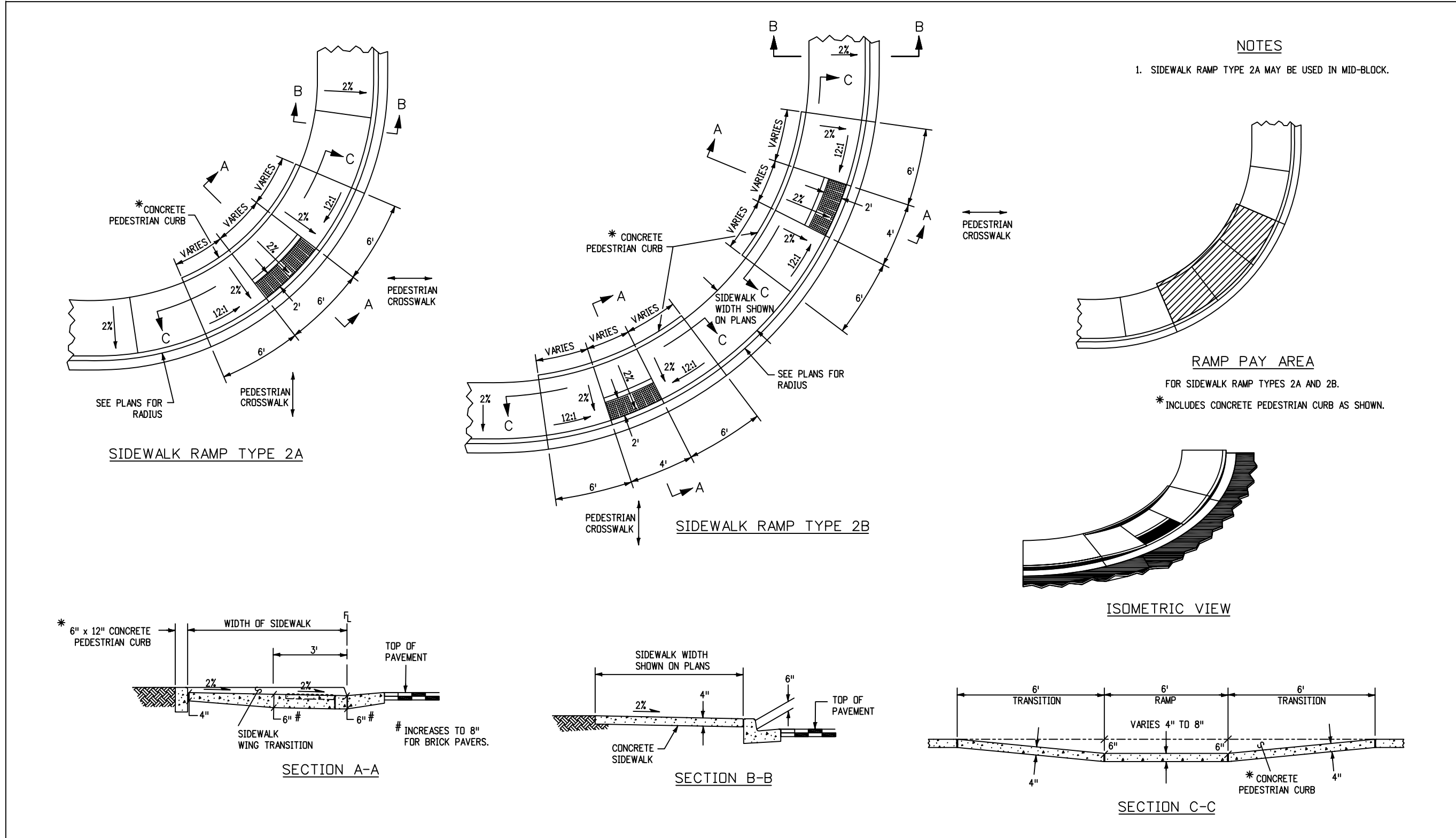
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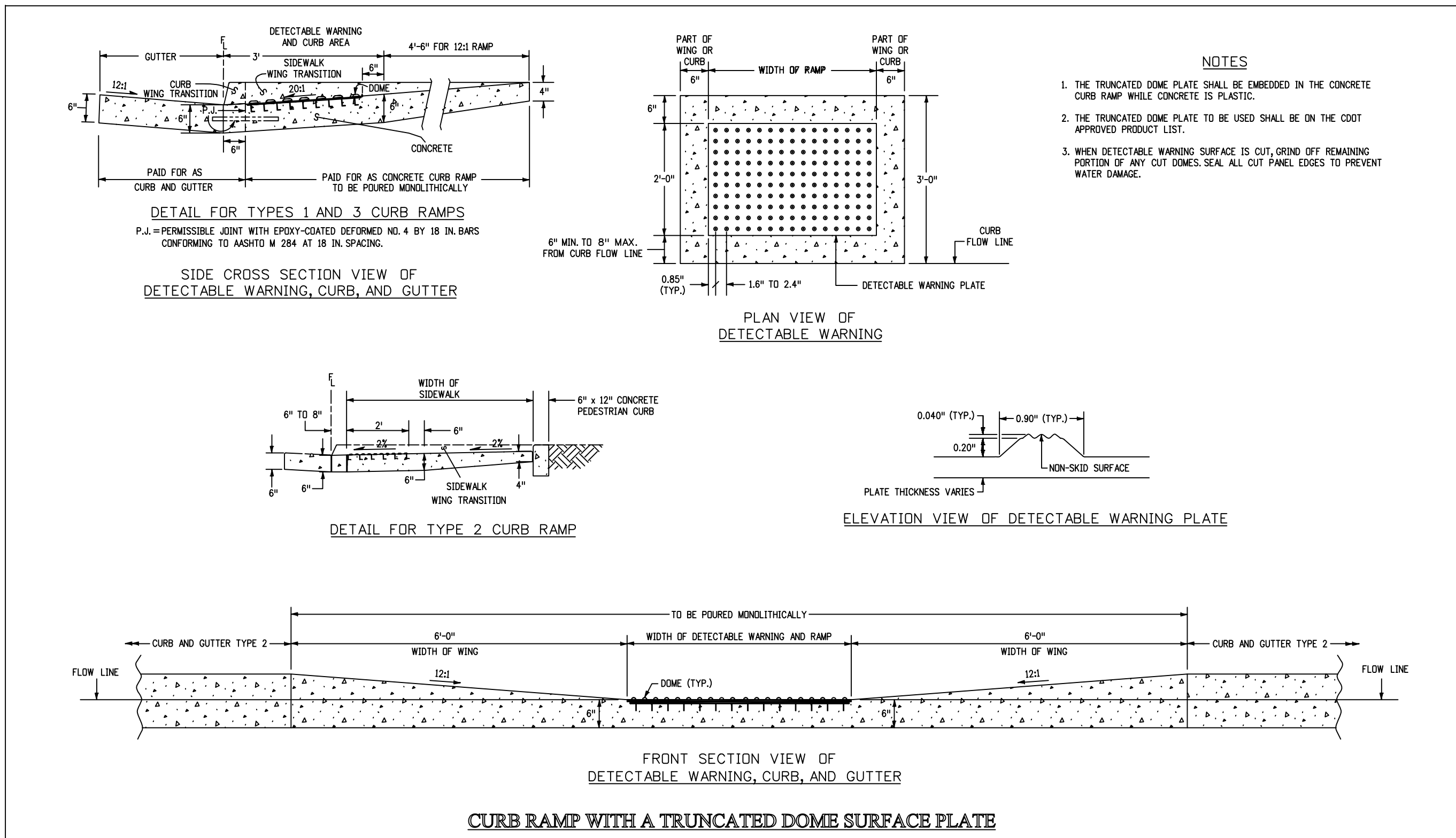
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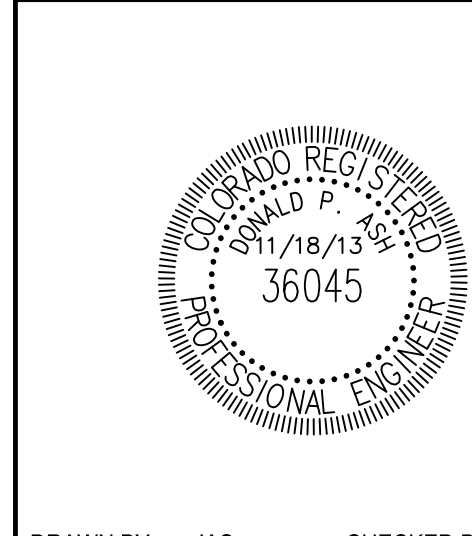
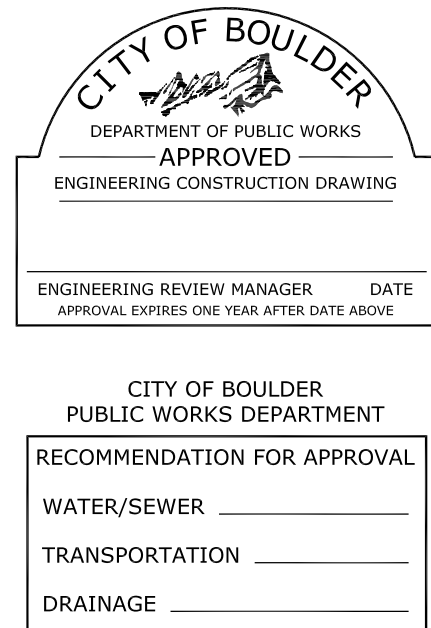
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Creation Date: 07/04/12	Initials: DD	Date:	Comments:		4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820	CURB RAMPS	M-608-1
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Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.	
Creation Date: 07/04/12	Initials: DD	Date:	Comments:		4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820	CURB RAMPS	M-608-1
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Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.	
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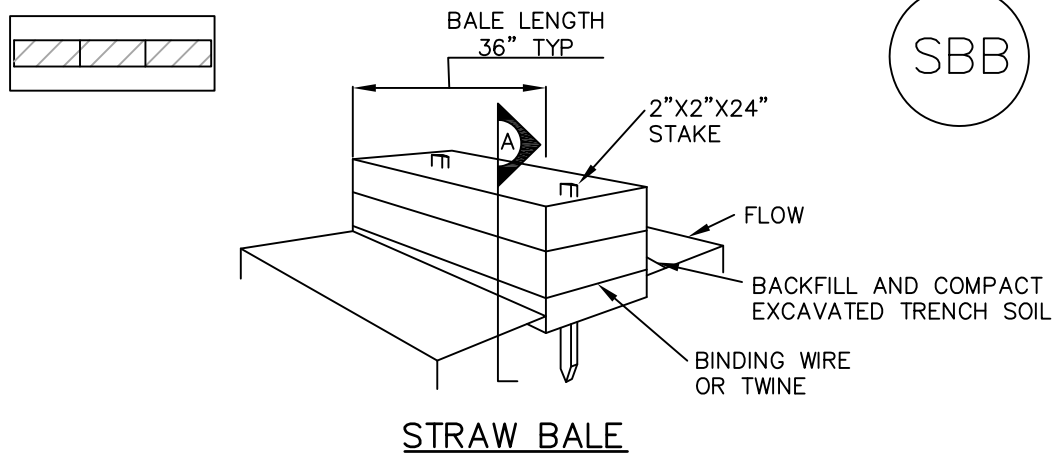
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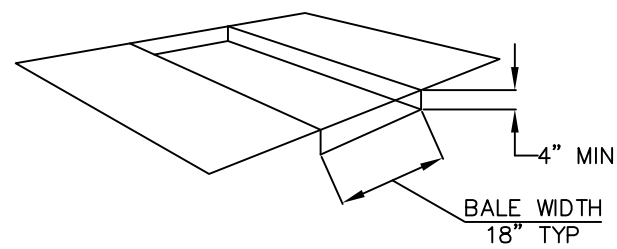
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CIVIL
DETAILS

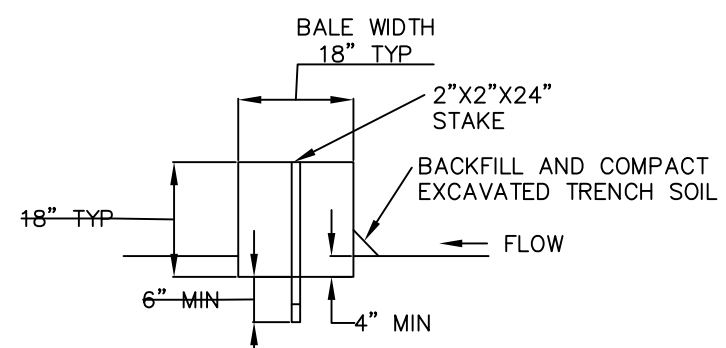
C6.03



STRAW BALE



TRENCH FOR STRAW BALE

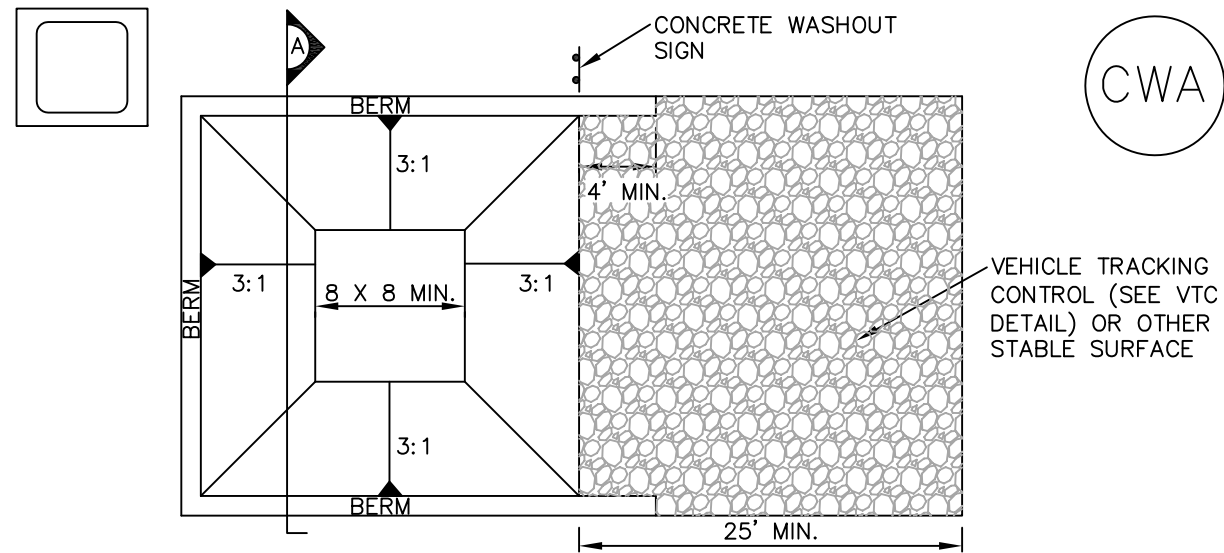


SECTION A

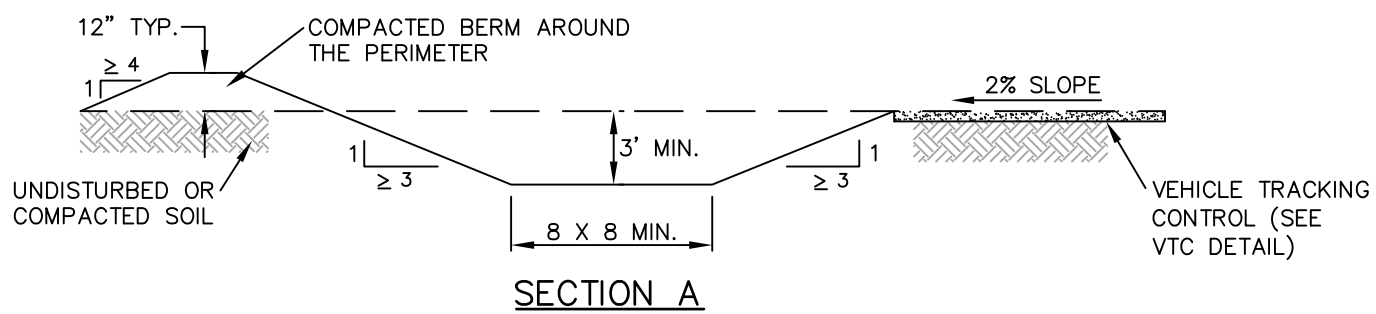
SBB-1. STRAW BALE

STRAW BALE INSTALLATION NOTES

- SEE PLAN VIEW FOR:
-LOCATION(S) OF STRAW BALES.
- STRAW BALES SHALL CONSIST OF CERTIFIED WEED FREE STRAW OR HAY. LOCAL JURISDICTIONS MAY REQUIRE PROOF THAT BALES ARE WEED FREE.
- STRAW BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF STRAW OR HAY AND WEIGH NOT LESS THAN 35 POUNDS.
- WHEN STRAW BALES ARE USED IN SERIES AS A BARRIER, THE END OF EACH BALE SHALL BE TIGHTLY ABUTTING ONE ANOTHER.
- STRAW BALE DIMENSIONS SHALL BE APPROXIMATELY 36"x18"x18".
- A UNIFORM ANCHOR TRENCH SHALL BE EXCAVATED TO A DEPTH OF 4". STRAW BALES SHALL BE PLACED SO THAT BINDING TWINE IS ENCOMPASSING THE VERTICAL SIDES OF THE BALE(S). ALL EXCAVATED SOIL SHALL BE PLACED ON THE UPHILL SIDE OF THE STRAW BALE(S) AND COMPACTED.
- TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE 2"x2"x24". WOODEN STAKES SHALL BE DRIVEN 6" INTO THE GROUND.



CONCRETE WASHOUT AREA PLAN

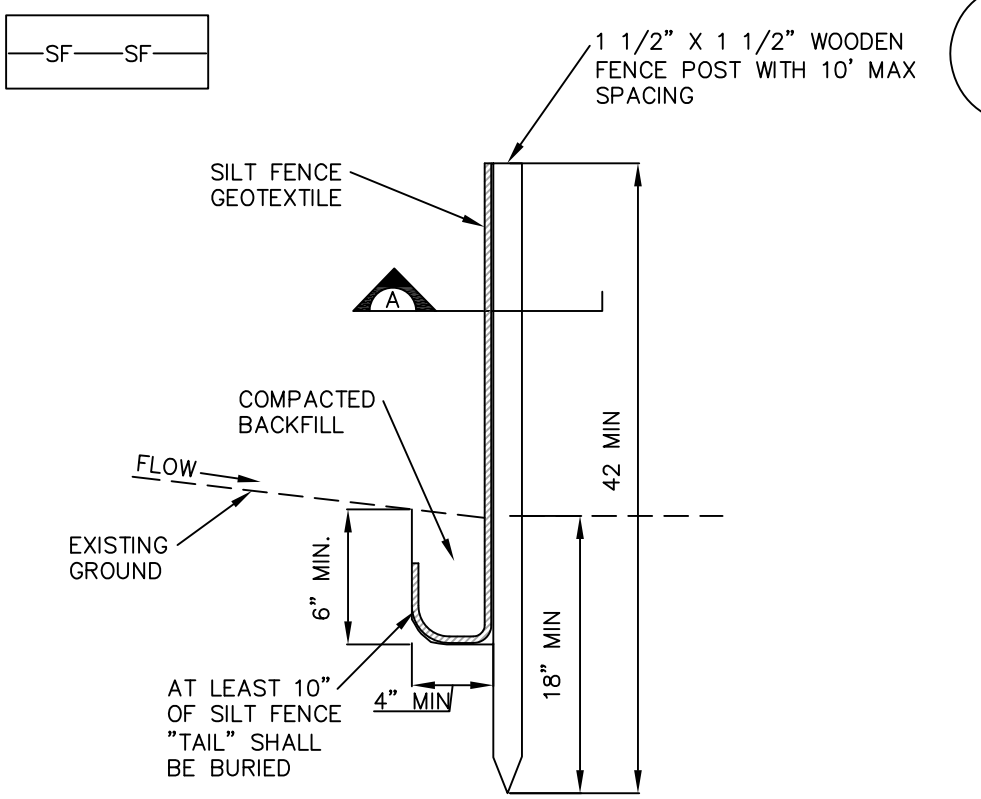


SECTION A

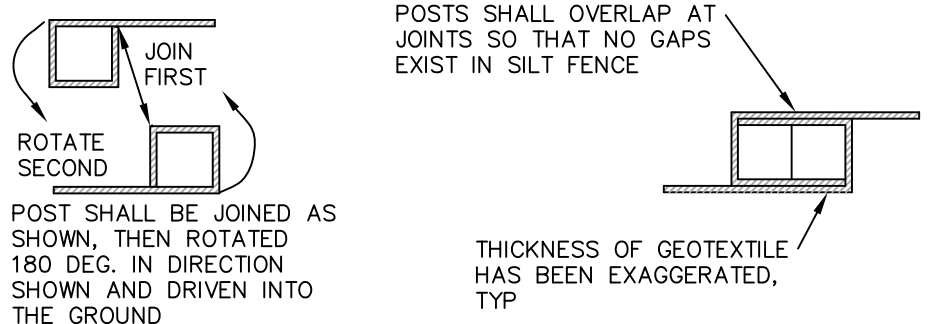
CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

- SEE PLAN VIEW FOR:
-CWA INSTALLATION LOCATION.
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE AREA SHALL BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.



SILT FENCE

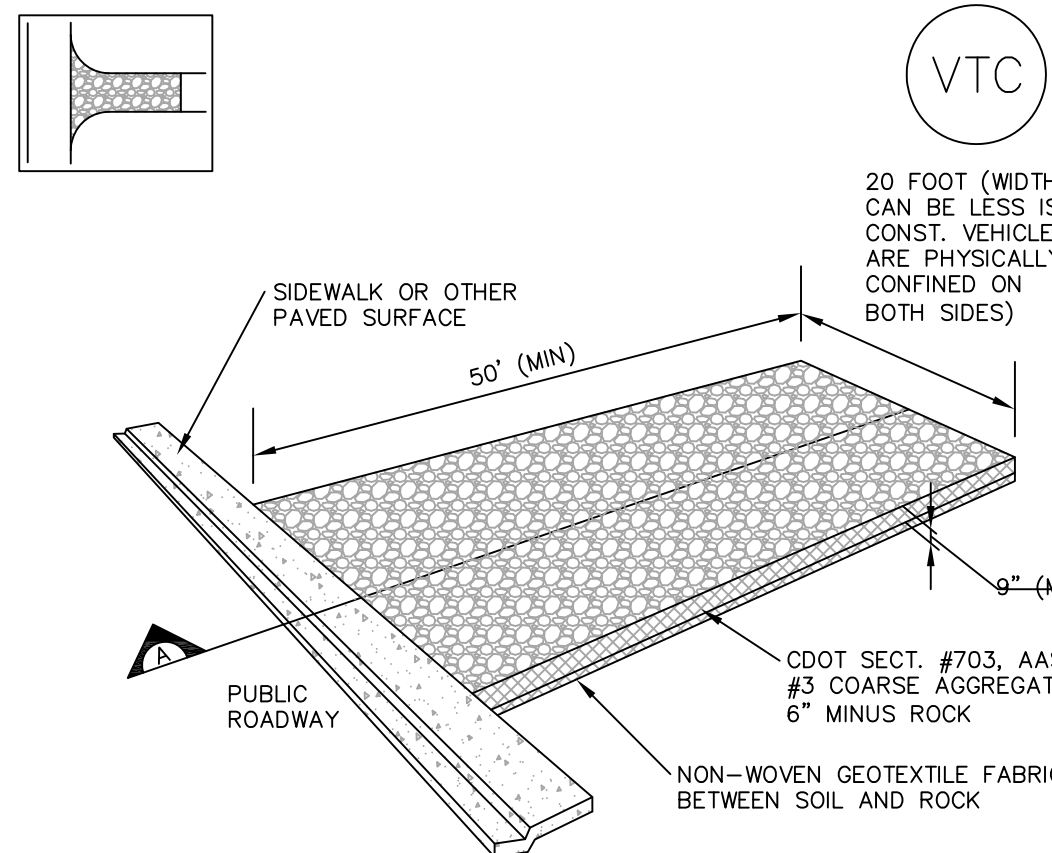


SECTION A

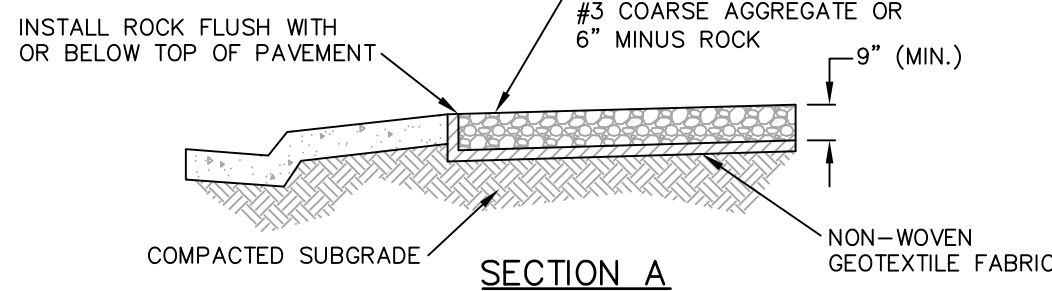
SF-1. SILT FENCE

SILT FENCE INSTALLATION NOTES

- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING.
- A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
- COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
- SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.



VTC

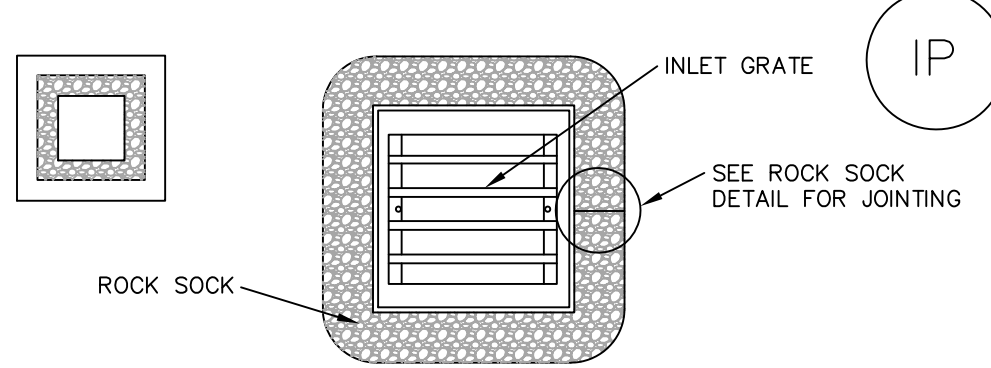


SECTION A

VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

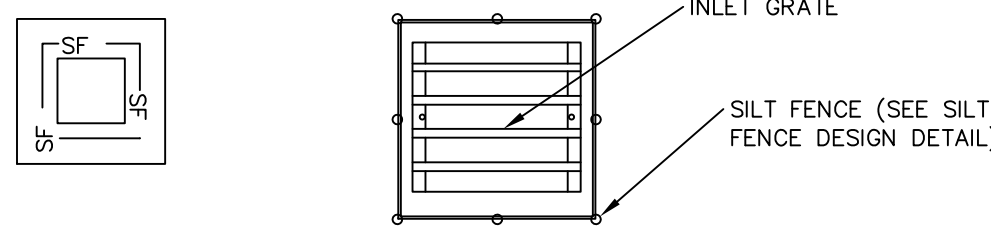
- SEE PLAN VIEW FOR:
- LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
- TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
- CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
- A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.



IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

- SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

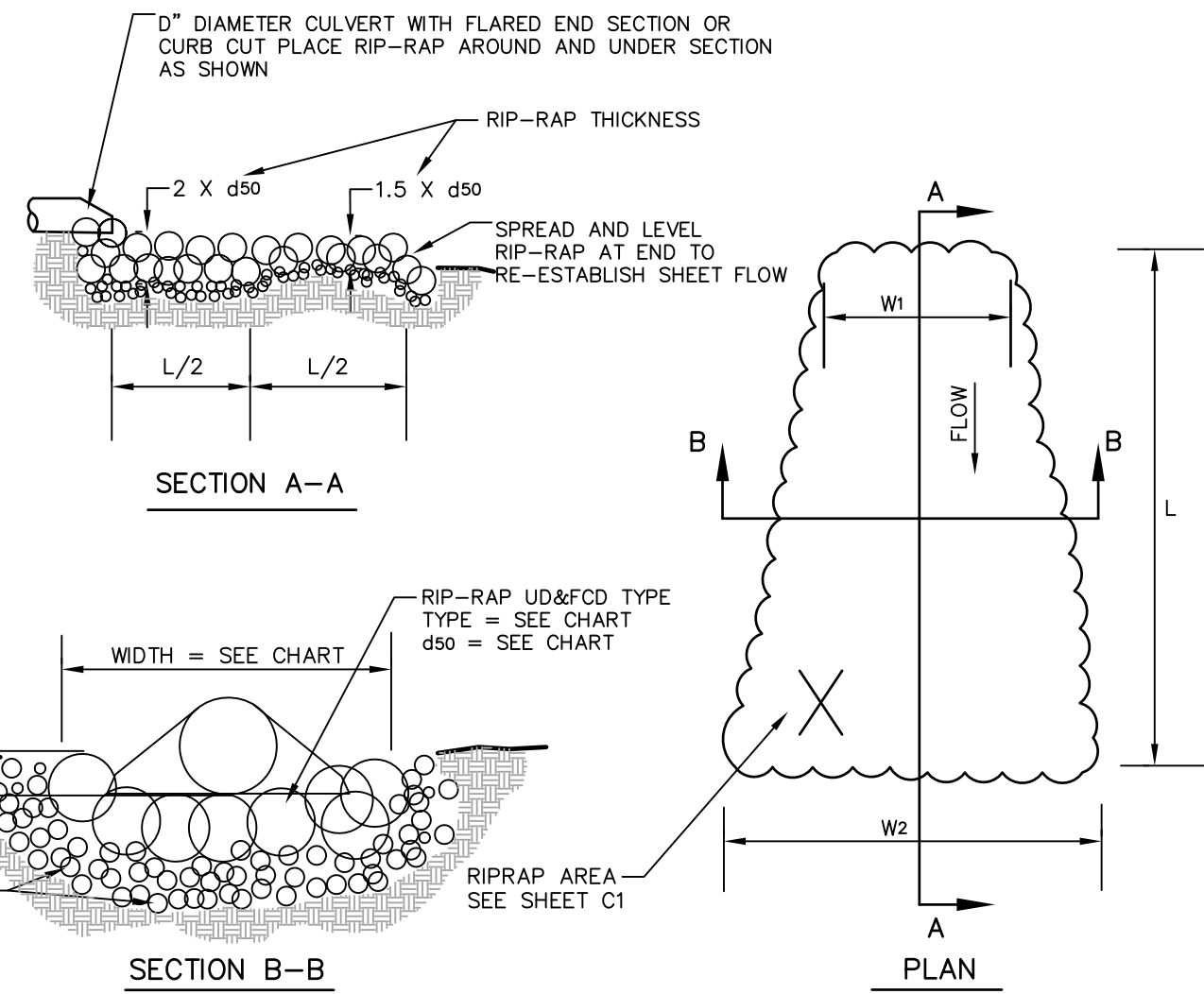


IP-4. SILT FENCE FOR SUMP INLET PROTECTION

SILT FENCE INLET PROTECTION INSTALLATION NOTES

- SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.
- STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

RIPRAP SIZING CHART (FEET)					
AREA	W	W ₂	L	TYPE	d ₅₀
A	2	4	3	V	9"
B	2	4	3	V	9"

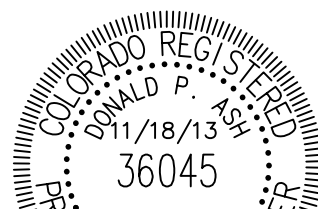
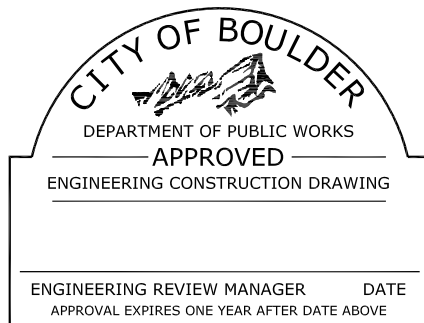


NOTES:

- STONE SHALL BE PLACED HOMOGENEOUSLY AND TO THE FULL COURSE THICKNESS IN ONE OPERATION; DISPLACEMENT OF UNDERLYING MATERIAL SHALL BE AVOIDED.
- QUALITY, AND PLACEMENT OF RIPRAP SHALL CONFORM TO SECTION 506 OF CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 3/4" CRUSHED ROCK SHALL CONFORM TO CDOT CLASS A FILTER MATERIAL (SECTION 703.09 CLASS A). PER UD & FOD REQUIREMENTS.
- RIP-RAP DESIGN BASED ON THE 10 YEAR STORM EVENT PER BOULDER COUNTY STANDARDS.

1 RIP-RAP RUNDOWN

SCALE: N.T.S.



DRAWN BY: JAS CHECKED BY: DPA

**Boulder County Administrative Services
Building Services Division - Architects**

2020 13th Street
Boulder, Colorado 80302
Tel: 303-441-3957
Fax: 303-441-1718

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SCOTT, COX & ASSOCIATES, INC.
consulting engineers • surveyors
1530 55th Street • Boulder, Colorado 80303
(303) 444 - 3051

Application Type: **TEC DOC REVIEW**
Case No.: **TEC 2013-00046**

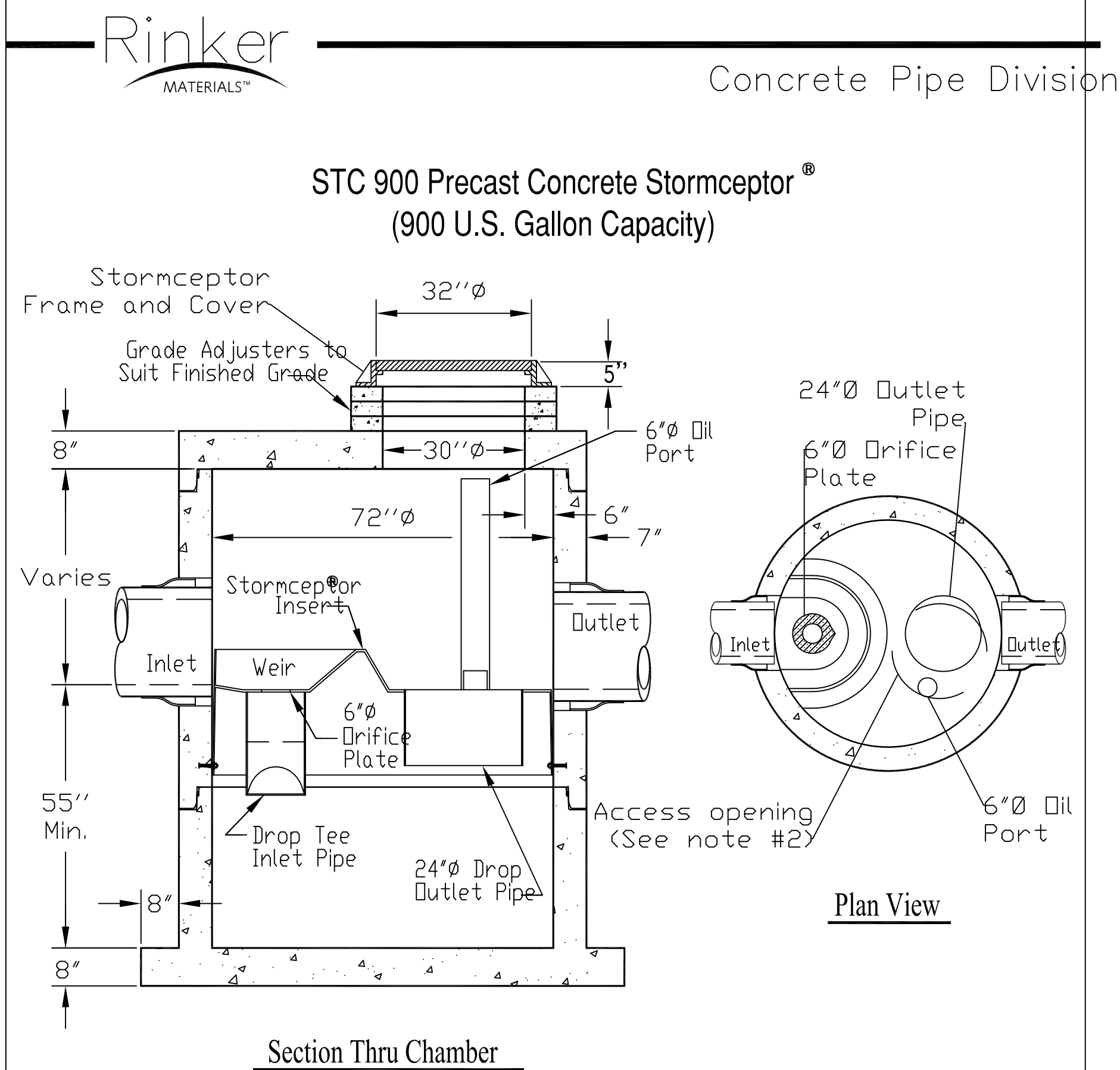
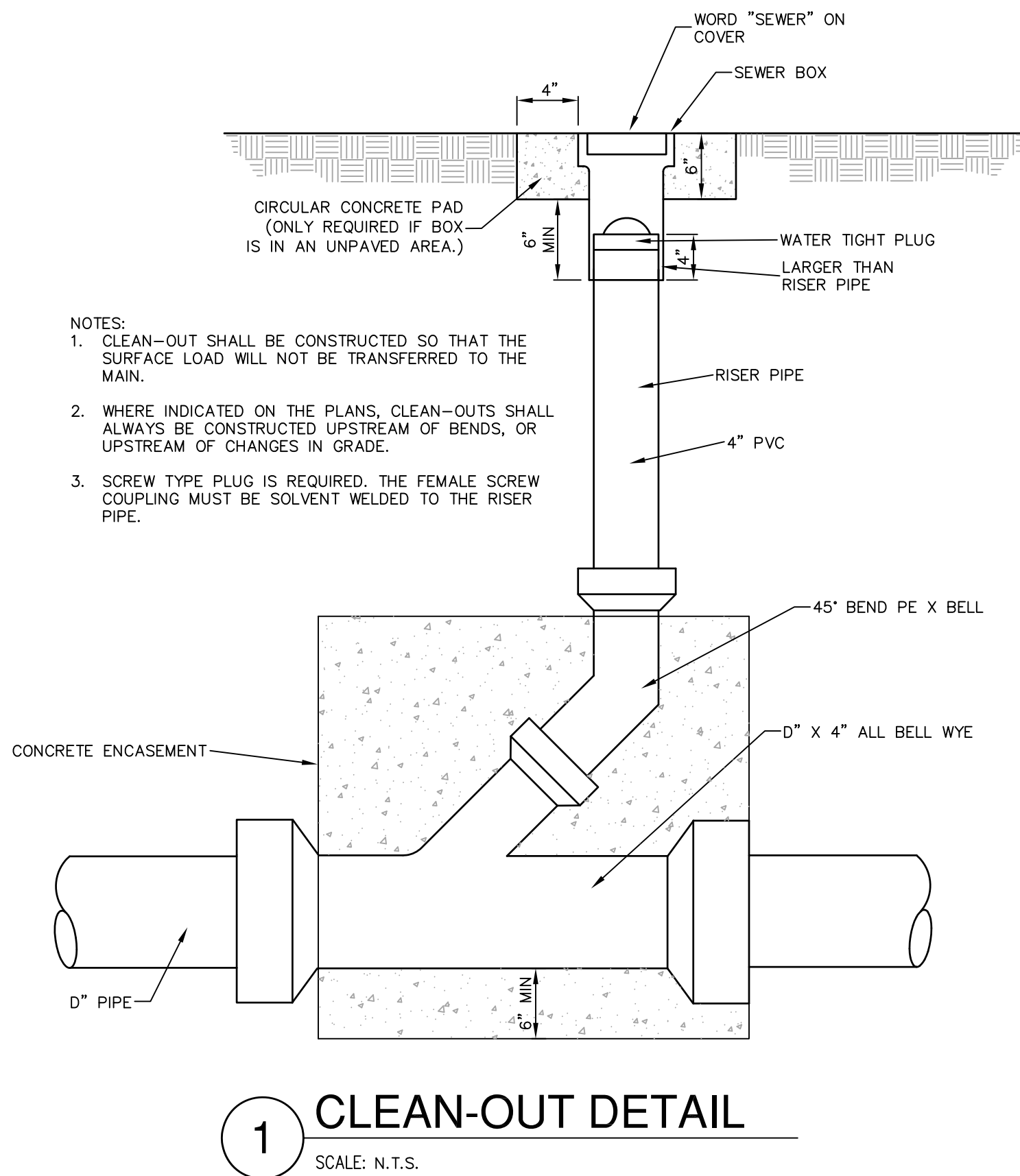
**BOULDER COUNTY
CORONER FACILITY**

5600 Flatiron Parkway
Boulder, Colorado 80301

Project No: 12506B

CIVIL
DETAILS

C6.04



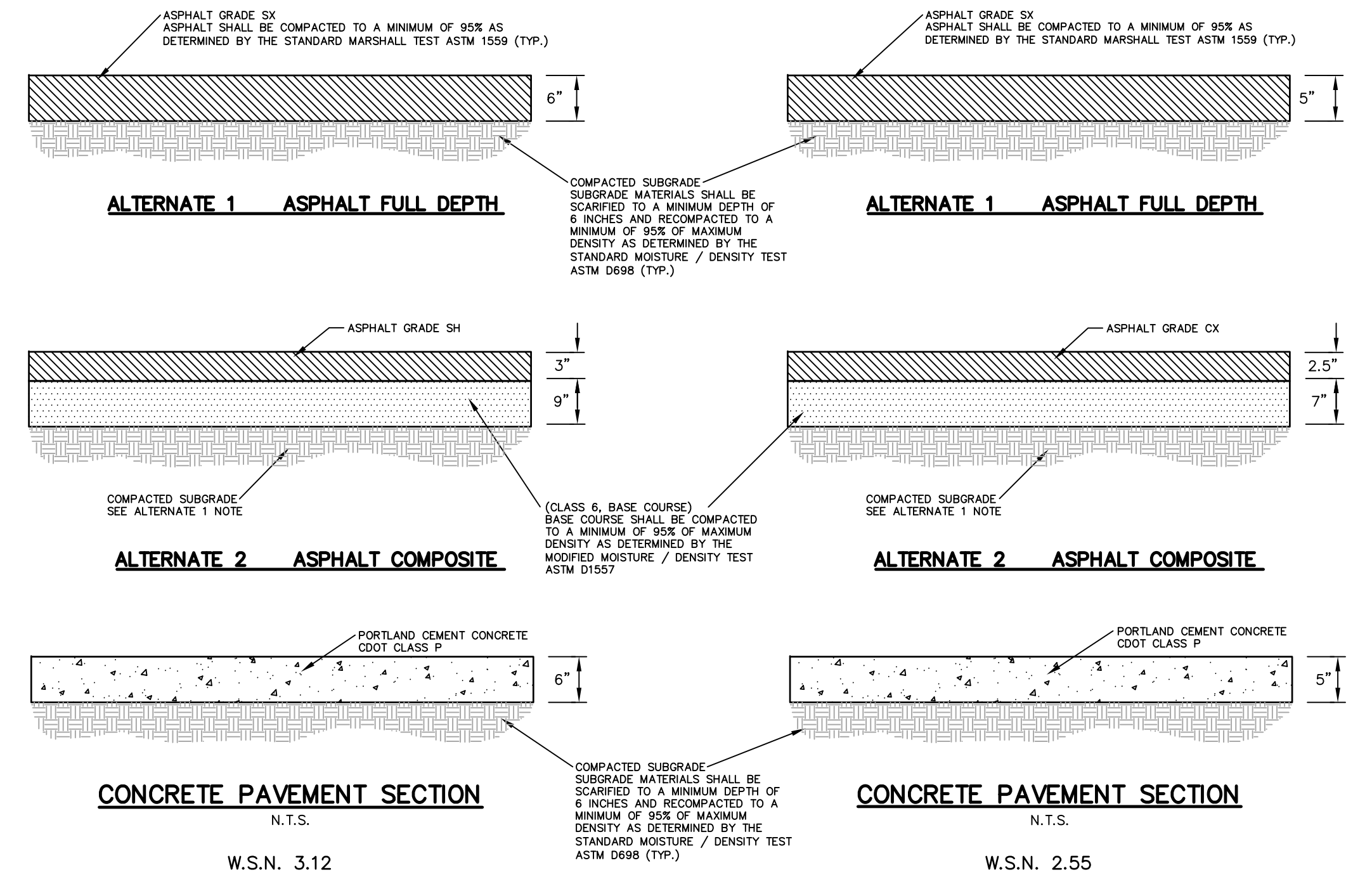
- Notes:
1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
 2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

PAVEMENT DESIGN ALTERNATIVES

THE DESIGN PAVEMENT SECTIONS PROVIDED HEREIN ARE DESIGNED TO MEET A SPECIFIC WORK (WEIGHTED STRUCTURAL NUMBER), AS THE STRENGTH COEFFICIENTS OF THE ACTUAL MATERIALS TO BE USED IN THE CONSTRUCTION MAY BE DIFFERENT FROM THE ASSUMED STRENGTH COEFFICIENTS. ALTERNATE SECTIONS WHICH PROVIDE THE REQUIRED WORK WILL BE CONSIDERED. THE CONTRACTOR SHALL SUBMIT ALTERNATE DESIGN SECTIONS ALONG WITH DOCUMENTATION OF ACTUAL STRENGTH COEFFICIENTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

NOTES: (APPLIES TO ALL SHEETS)

1. ALL ASPHALT PLACED SHALL BE COMPACTED TO A MINIMUM OF 95% AS DETERMINED BY THE MARSHALL TEST ASTM D1559 (TYP.)
2. MAX. ASPHALT LIFT THICKNESS = 4 INCHES
3. MIN. ASPHALT LIFT THICKNESS = 1 1/2 INCHES
4. ALL ASPHALT PAVING SHALL BE DONE IN ACCORDANCE WITH CDOT "SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

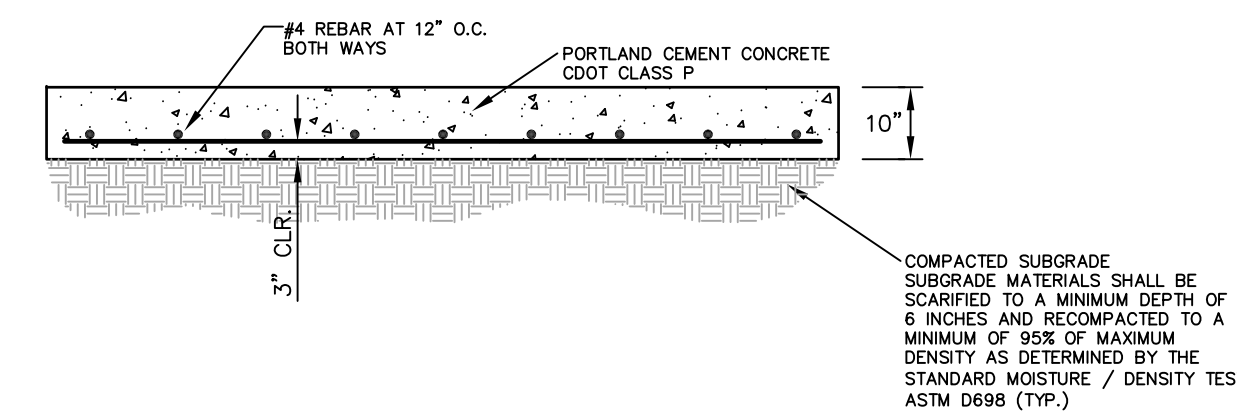
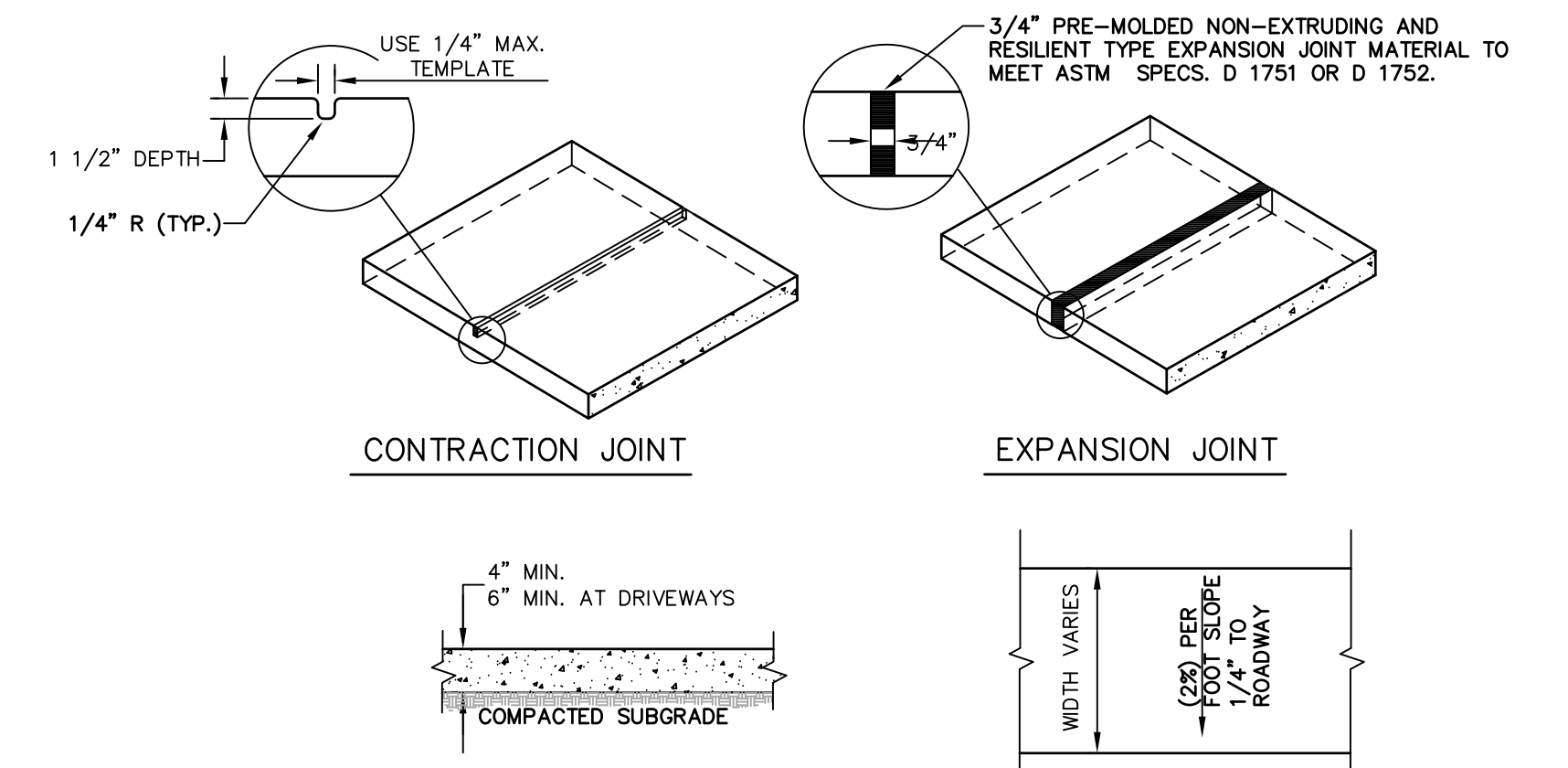


HEAVY PAVEMENT SECTIONS
(TO BE USED IN TRAVELWAYS AND TRUCK ACCESS AREAS)

LIGHT PAVEMENT SECTIONS
(TO BE USED IN PARKING STALL AREAS ONLY)

2 PAVEMENT DETAILS

SCALE: N.T.S.

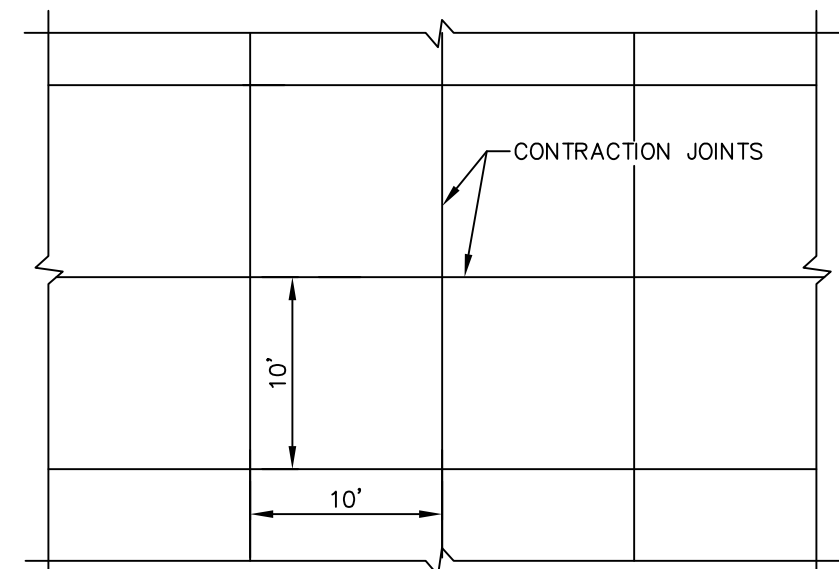
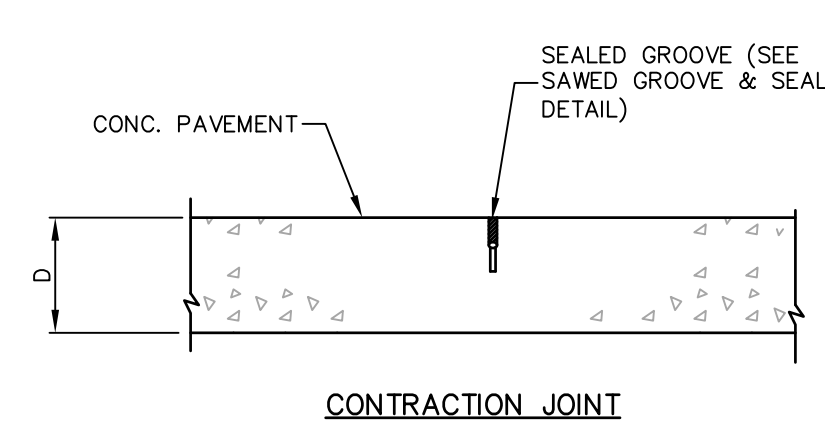
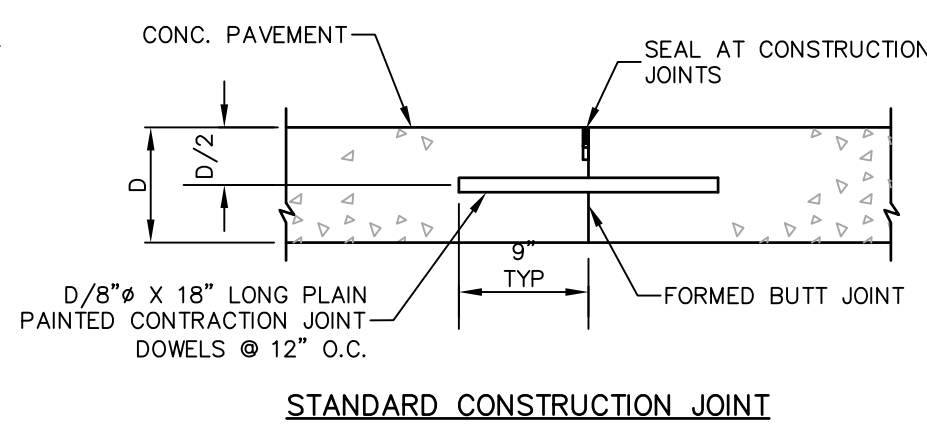
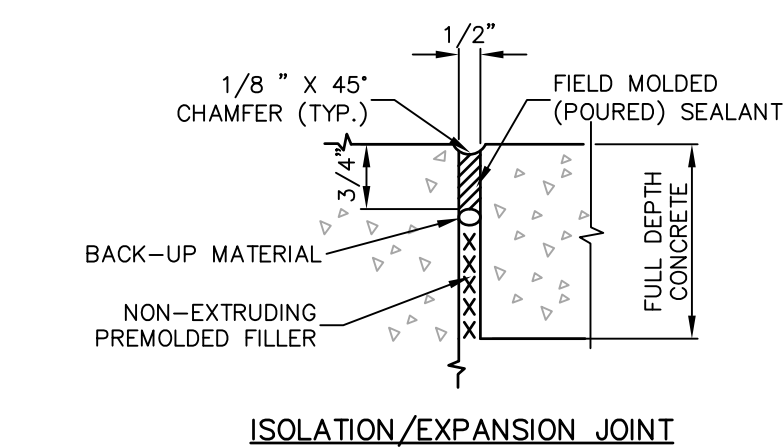


4 TRASH PAD DETAIL

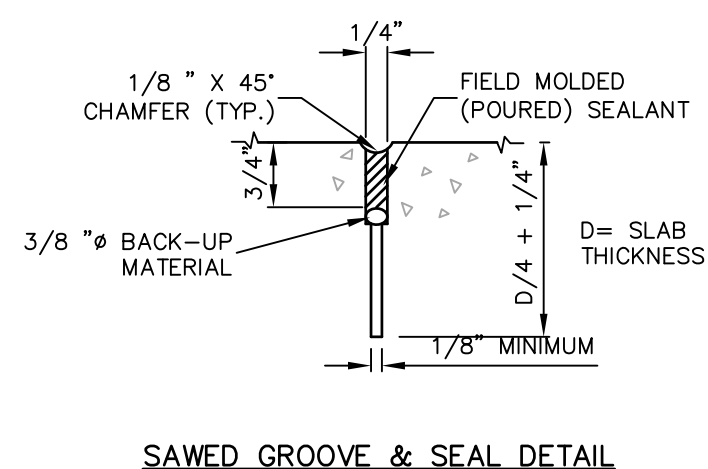
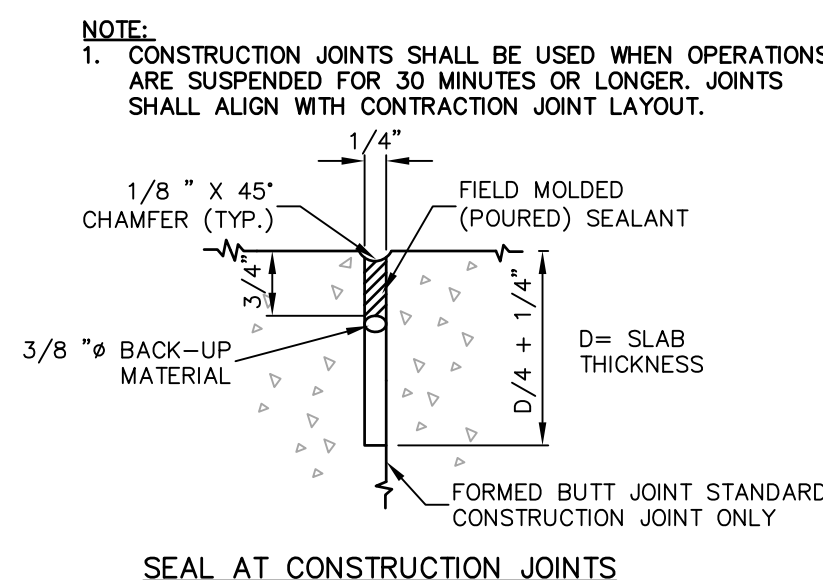
SCALE: N.T.S.

5 CONCRETE SIDEWALK

SCALE: N.T.S.

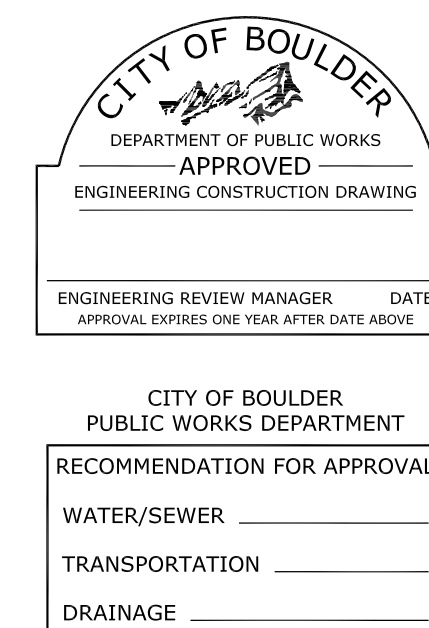


- NOTE:
1. JOINT LAYOUT PLAN REPRESENTS THE MAXIMUM JOINT SEPARATION. CONTRACTOR SHALL SUBMIT FINAL JOINT LAYOUT PLAN TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
 2. PROVIDE ISOLATION JOINT WHERE CONCRETE ABOUT STRUCTURES.



3 TYPICAL CONCRETE PAVEMENT JOINTS

SCALE: N.T.S.



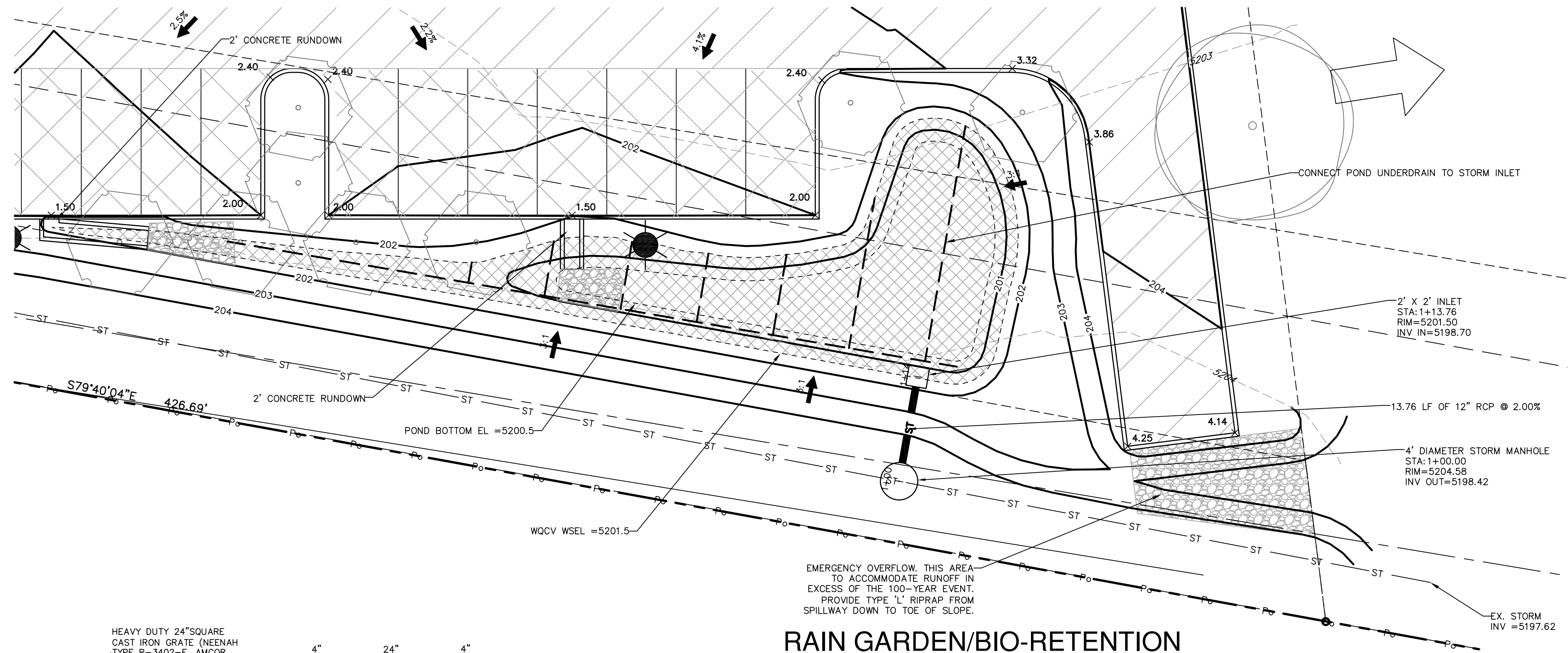
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Boulder County Administrative Services Building Services Division - Architects	
2020 13th Street Boulder, Colorado 80302 Tel: 303-441-3957 Fax: 303-441-1718	
SCOTT, COX & ASSOCIATES, INC. consulting engineers • surveyors 1530 55th Street • Boulder, Colorado 80303 (303) 444 - 3051	
Application Type: TEC DOC REVIEW Case No.: TEC 2013-00046	

REVISION	DATE
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Applicant Information Boulder County Administrative Services Building Services Division - Architects P.O. Box 471 Boulder, Colorado 80306	

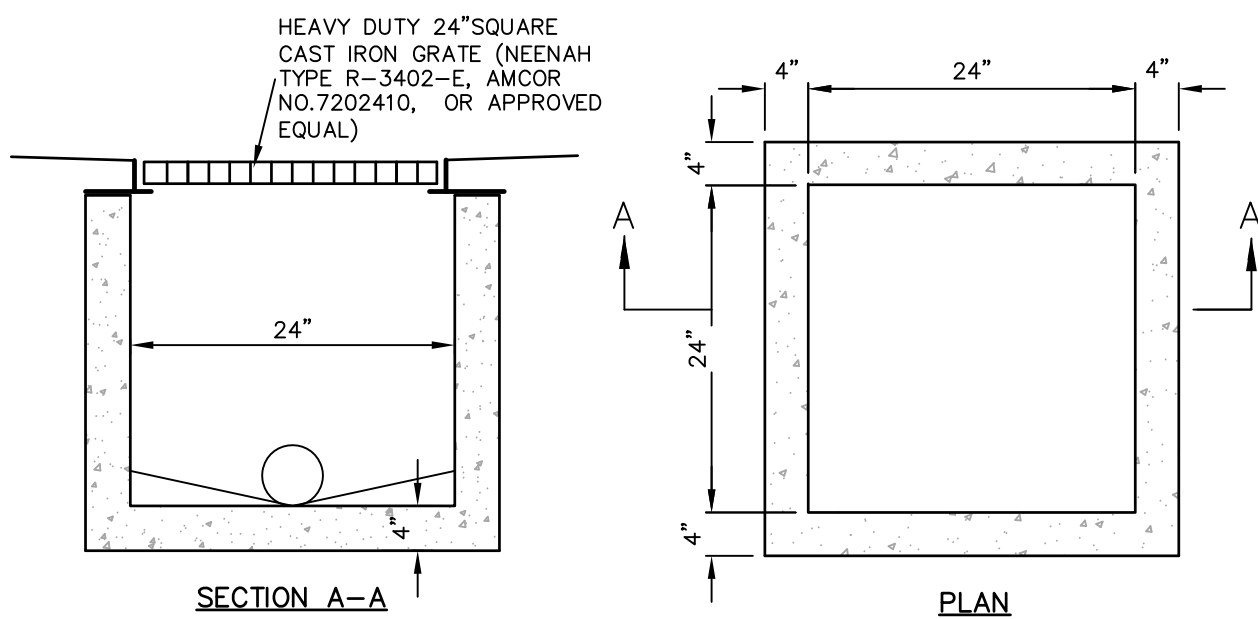
BOULDER COUNTY CORONER FACILITY	
5600 Flatiron Parkway Boulder, Colorado 80301	
Project No: 12506B	
CIVIL DETAILS	

C6.05



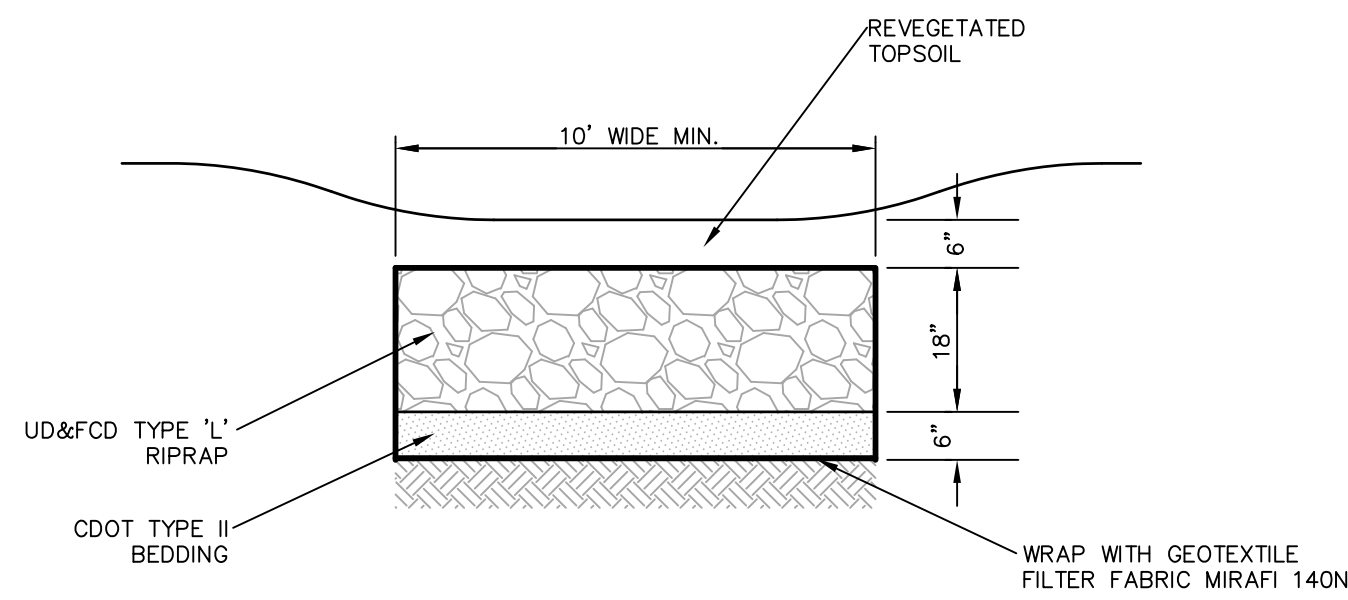
RAIN GARDEN/BIO-RETENTION FACILITY DETAIL

SCALE: 1" = 10'



NOTE:
1. CONTRACTOR SHALL MAKE PIPE CONNECTION OPENINGS AS REQUIRED IN THE FIELD AND SHALL POUR NEW CONCRETE INVERTS IN THE INLET AFTER THE PIPE TIE-INS HAVE BEEN MADE. THE POURED INVERT SHALL HAVE A MIN. SIDE SLOPE OF 1" PER 12".

NOTE:
1. INLET SHALL BE MANUFACTURED BY AMCOR OR APPROVED EQUAL. CONTRACTOR MAY CONSTRUCT A CAST IN PLACE REINFORCED CONCRETE INLET STRUCTURE IN LIEU OF PRECAST INLET, IF DESIGN MATCHES THE SPECIFIED STRUCTURE AND IS APPROVED BY THE OWNER.
2. USE 6" WALL THICKNESS, 3000 P.S.I. MIN. FOR CAST IN PLACE OPTION.



5 BURIED RIPRAP DETAIL

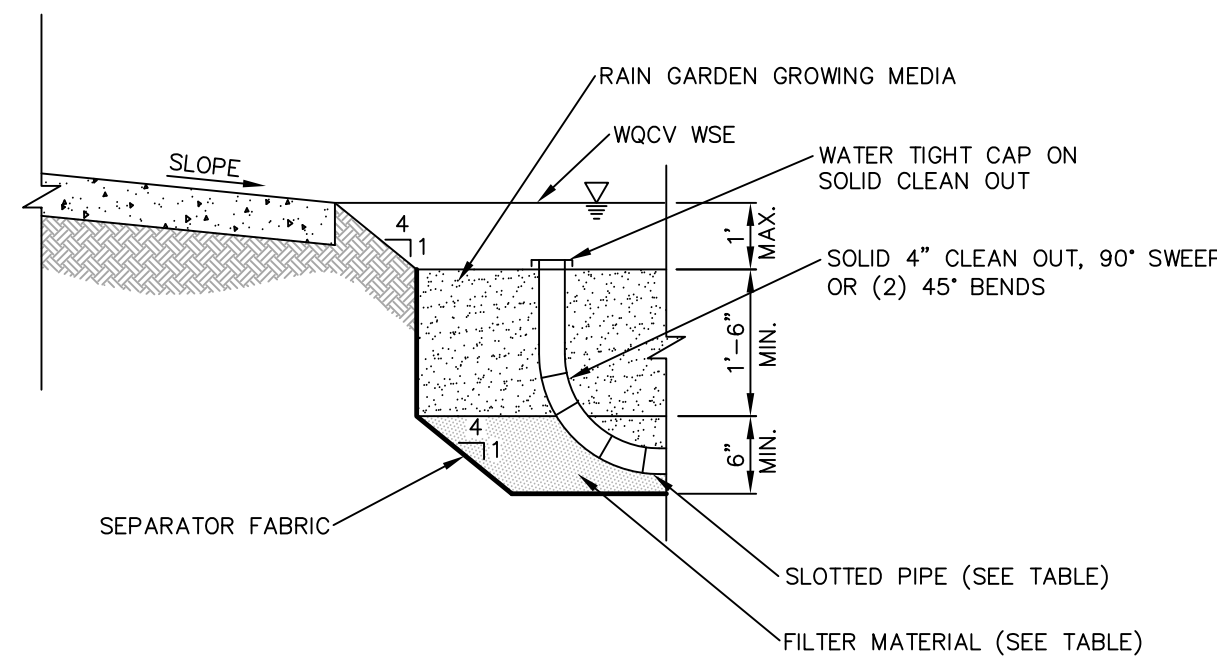
SCALE: N.T.S.

CDOT CLASS C - FILTER MATERIAL (CDOT TABLE 703-7)

SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
19.0 MM (3/4")	100
4.75 MM (NO. 4)	60 - 100
300 UM (NO. 50)	10 - 30
150 UM (NO. 100)	0 - 10
75 UM (NO. 200)	0 - 3

SLOTTED PIPE TABLE

PIPE DIAMETER	SLOT LENGTH	MAXIMUM SLOT WIDTH	SLOT CENTERS	OPEN AREA (PER FOOT)
4"	1-1/16"	0.032"	0.413"	1.90 IN ²
6"	1-3/8"	0.032"	0.516"	1.98 IN ²

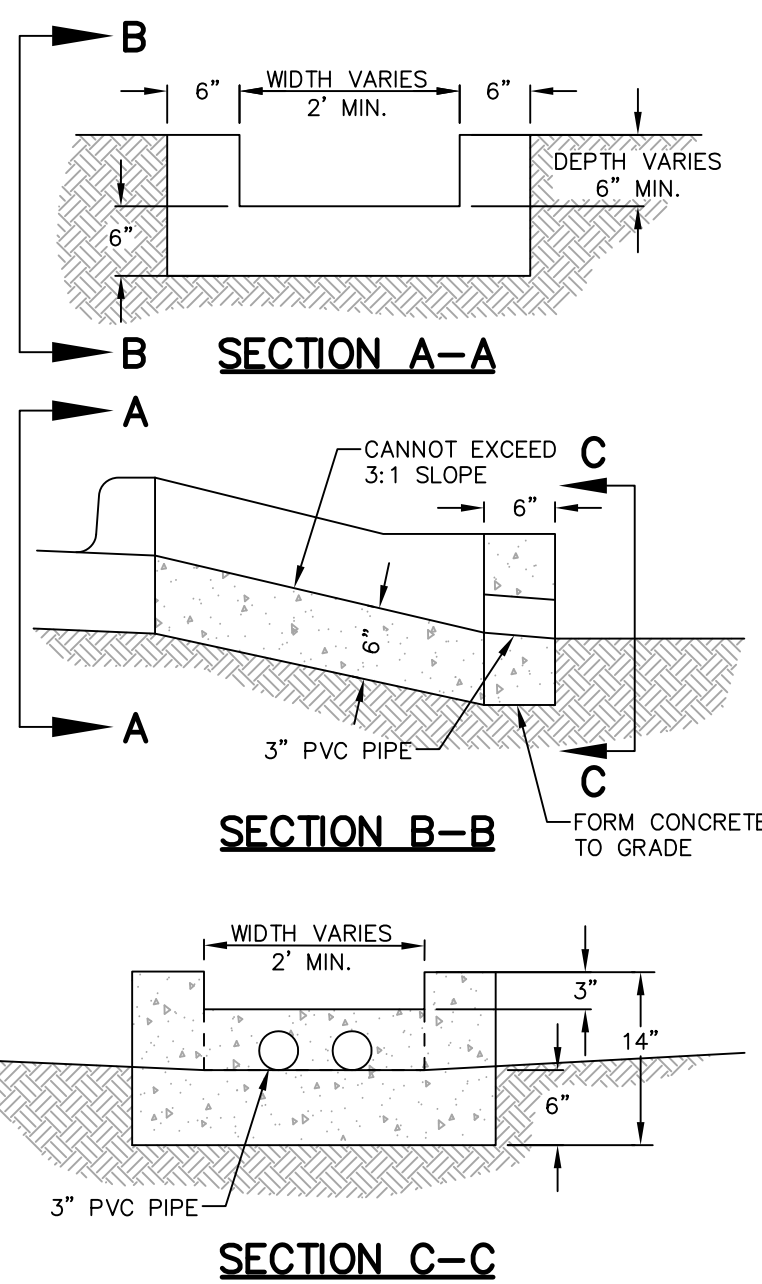


7 UNDERDRAIN DETAIL

SCALE: N/A

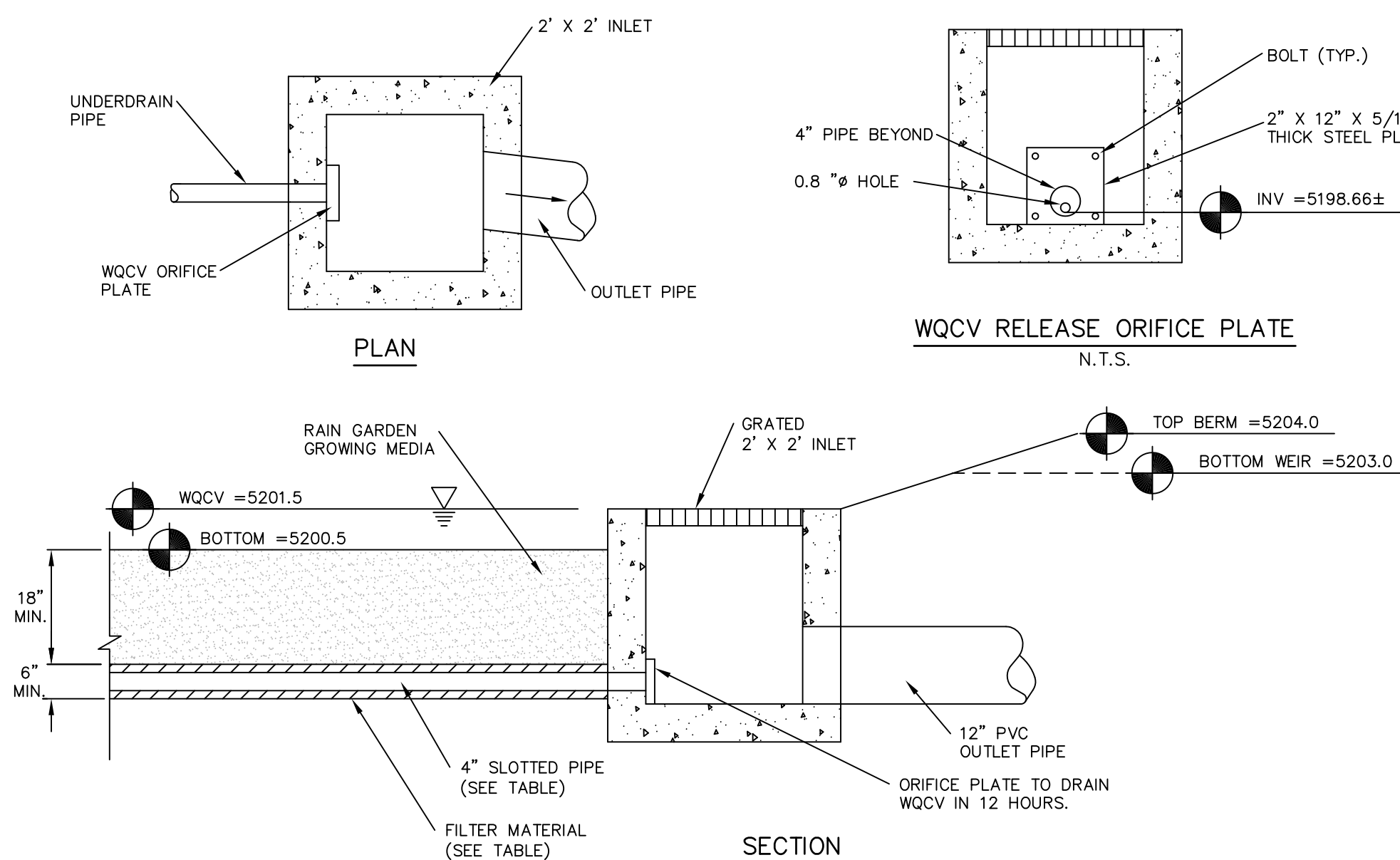
3 2' X 2' OUTLET STRUCTURE

SCALE: N.T.S.



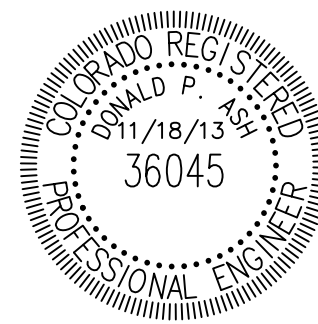
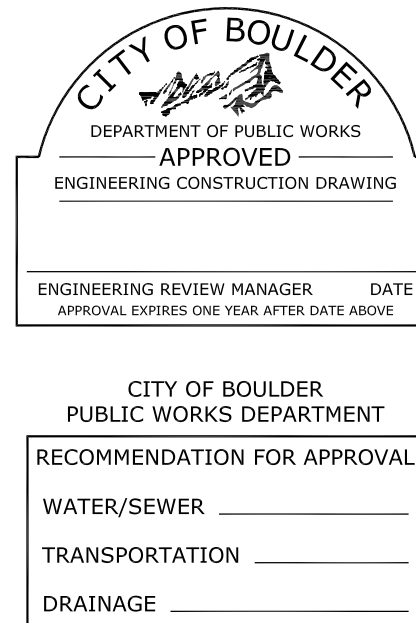
4 RUNDOWN DETAIL

SCALE: N.T.S.



6 OUTLET STRUCTURE DETAIL

SCALE: N.T.S.



DRAWN BY: JAS CHECKED BY: DPA

Boulder County Administrative Services Building Services Division - Architects
2020 13th Street
Boulder, Colorado 80302
Tel: 303-441-3957
Fax: 303-441-1718

SCOTT, COX & ASSOCIATES, INC.
consulting engineers • surveyors
1530 55th Street • Boulder, Colorado 80303
(303) 444 - 3051

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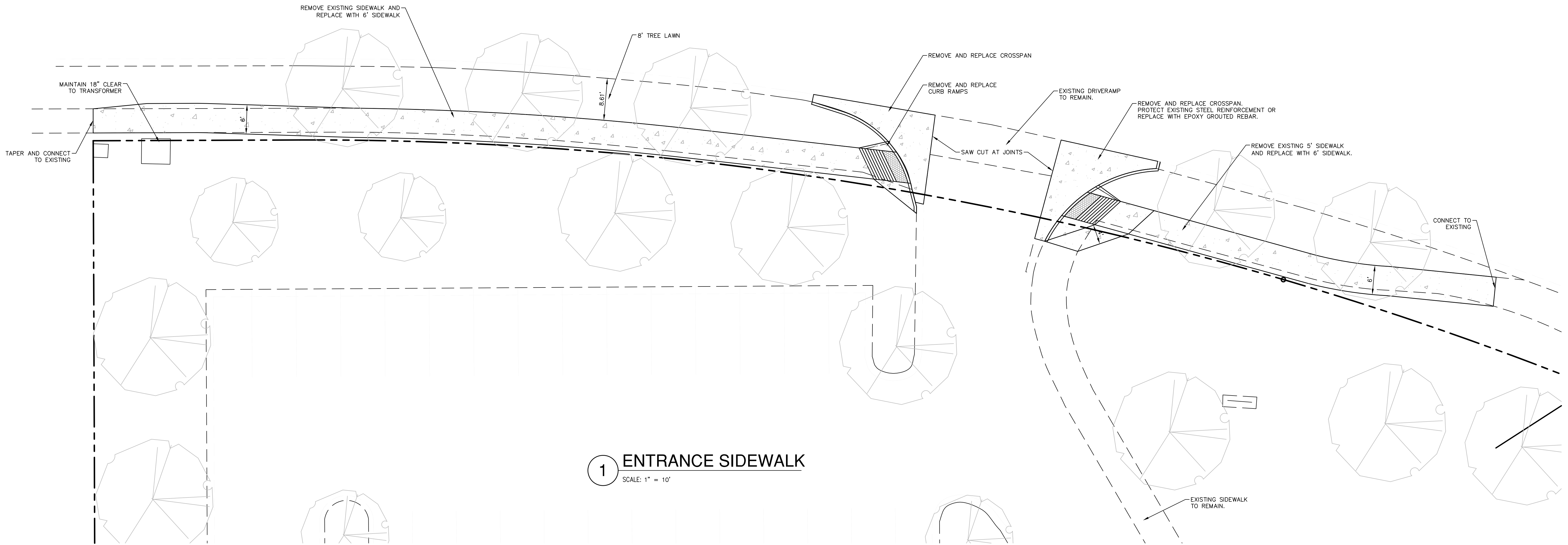
BOULDER COUNTY CORONER FACILITY
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Project No: 12506B

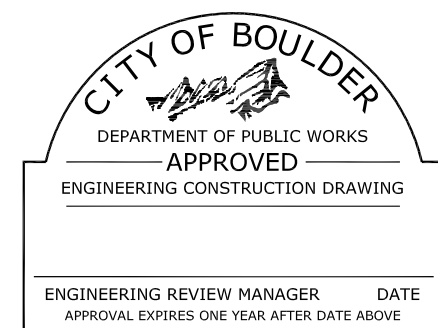
CIVIL DETAILS

C6.06

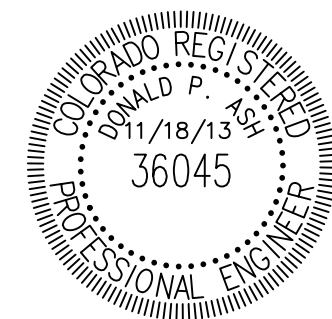
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1 ENTRANCE SIDEWALK
SCALE: 1" = 10'



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____



DRAWN BY: JAS CHECKED BY: DPA

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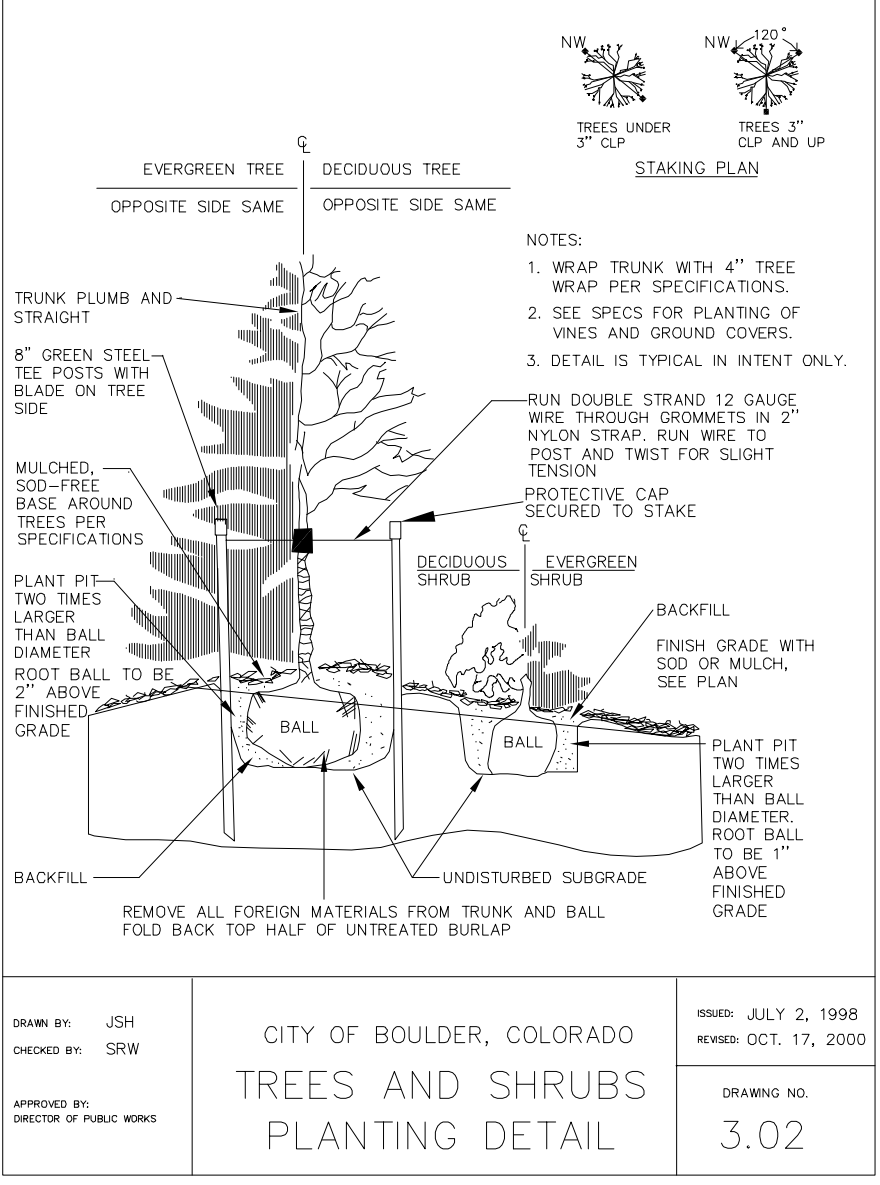
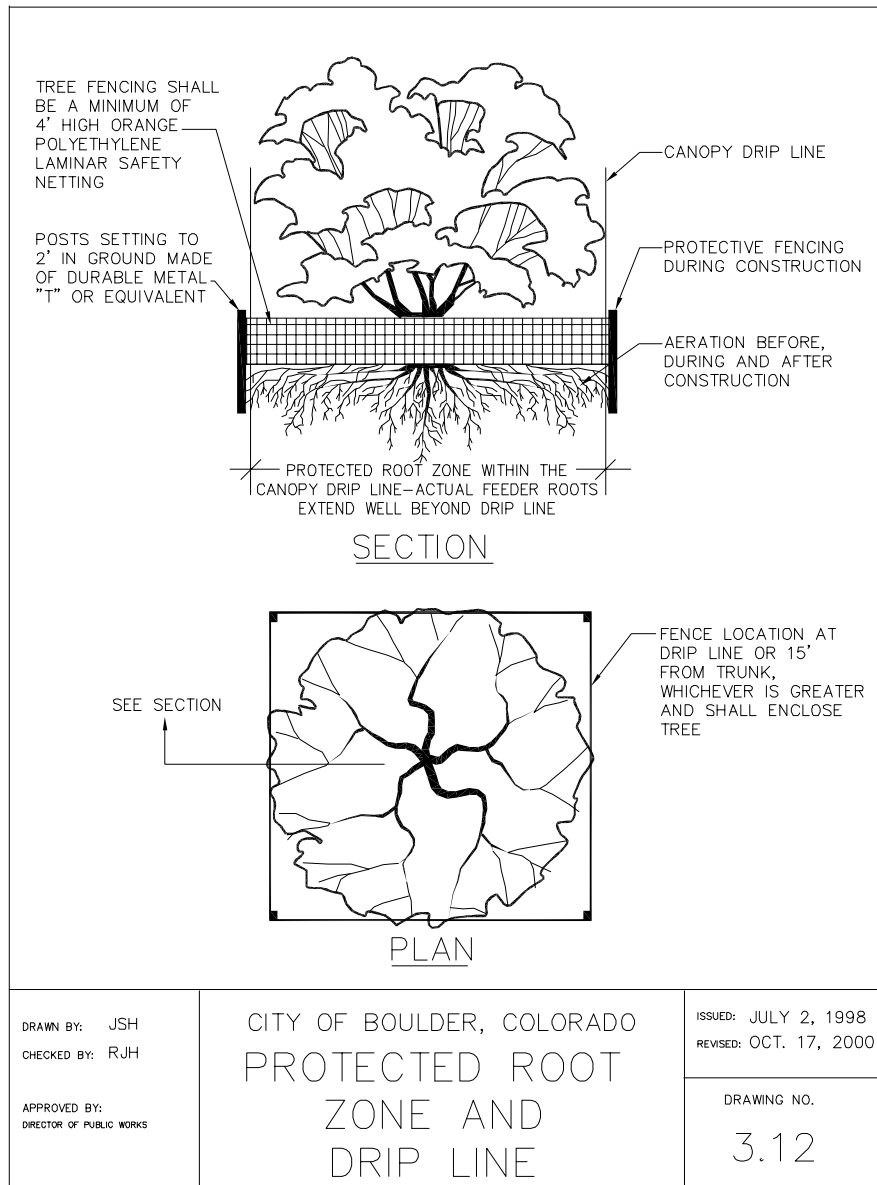
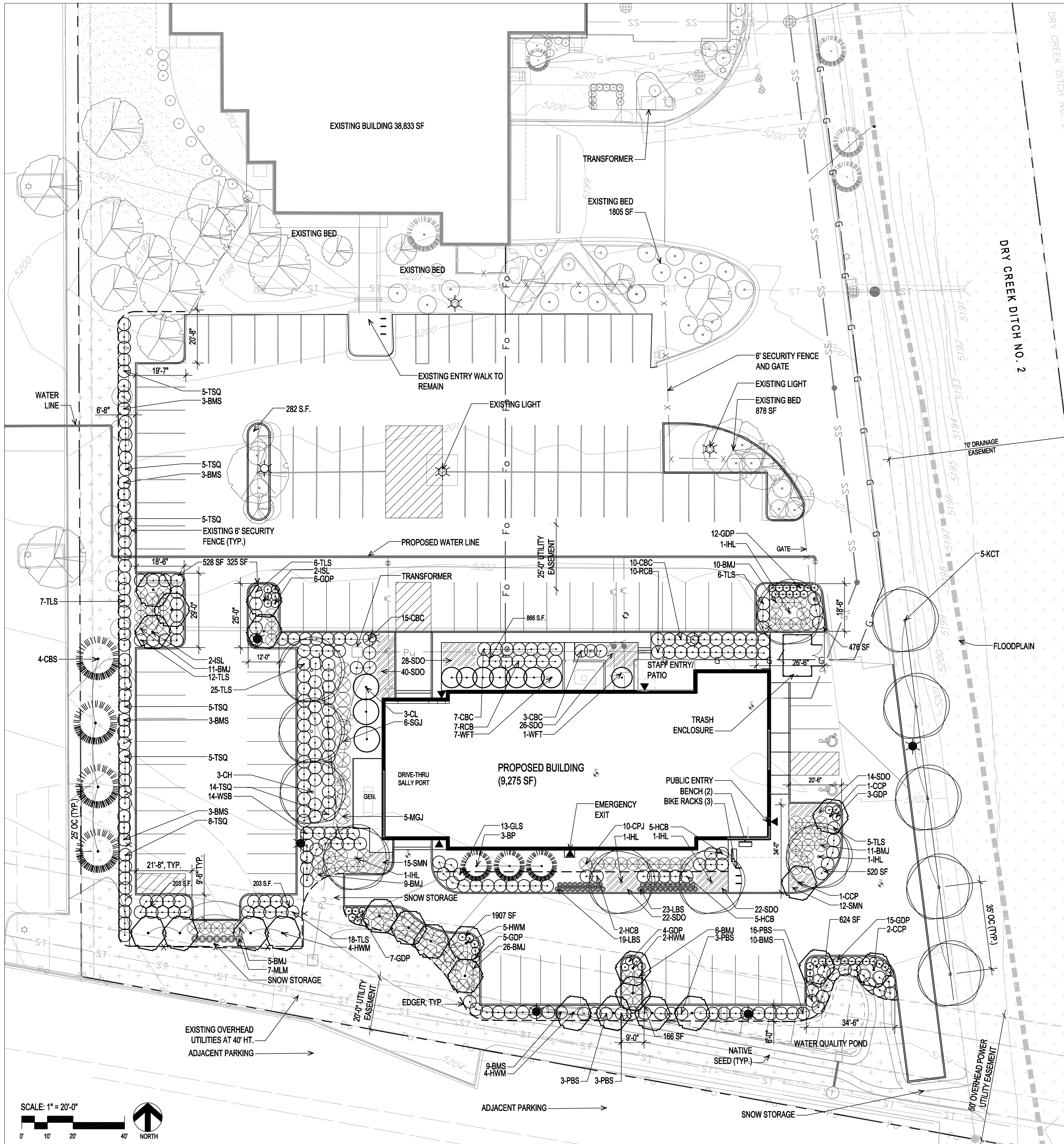
**BOULDER COUNTY
CORONER FACILITY**
5600 Flatiron Parkway
Boulder, Colorado 80301

Project No: 12506B

CIVIL
DETAILS

C6.07

MATCHLINE, SEE L1




TREE PROTECTION


TREE AND SHRUB PLANTING

PLANT LIST:

EVERGREEN TREES						
Sym.	Qty	Botanical Name:	Common Name:	Size:	Mature Height:	Notes
CBS	4	<i>Picea pungens</i> "Coloratus"	Colorado Blue Spruce	6"	40'-60'	B&B, Strong Leader, balanced form
BP	3	<i>Pinus heldreichii</i>	Bosnian Pine	6"	15'	B&B, Strong Leader, balanced form
DECIDUOUS TREES						
Sym.	Qty	Botanical Name:	Common Name:	Size:	Mature Height:	Notes
CH	3	<i>Celtis occidentalis</i>	Hackberry	2"	40'-50'	B&B, Straight trunk, single stem, full form
IHL	5	<i>Gleditsia triacanthos inermis</i> Imperial	Honey Locust	2"	30'-40'	B&B, Straight trunk, single stem, full form
KTC	5	<i>Gymnocladus dioica</i> "Espresso"	Espresso Kentucky Coffeetree	2"	40'-60'	B&B, Straight trunk, single stem, full form
ORNAMENTAL TREES						
Sym.	Qty	Botanical Name:	Common Name:	Size:	Mature Height:	Notes
HWM	15	<i>Acer tataricum</i> "Hot Wings"	Hot Wings Maple	2"	15'-18'	B&B, Multi-stem, full form
CCP	4	<i>Pyrus calleryana</i> "Chanticleer"	Pear	2"	25'-35'	B&B, Straight trunk, single stem, full form
ISL	5	<i>Syringa reticulata</i> Ivory Silk	Ivory Silk Lilac Tree	2"	20'-25'	B&B, Straight trunk, single stem, full form
EVERGREEN SHRUBS						
Sym.	Qty	Botanical Name:	Common Name:	Size:	Mature Height:	Notes
BMJ	84	<i>Juniperus sabina</i> "Broadmoor"	Juniper - Broadmoor	5 gal	12'-18"	Cont. Well rooted, full and bushy
CPJ	19	<i>Juniperus x media</i> "Pfitzeriana Compacta"	Juniper - Compact Pfitzer	5 gal	3'-4'	Cont. Well rooted, full and bushy
SGJ	6	<i>Juniper x pfitzeriana</i> "Sea Green"	Sea Green Juniper	5 gal	5'-6'	Cont. Well rooted, full and bushy
MGJ	5	<i>Juniperus sabina</i> "Moonglow"	Moonglow Juniper	5 gal.	10'-12'	Cont. Well rooted, full and bushy
SHRUBS						
Sym.	Qty	Botanical Name:	Common Name:	Size:	Mature Height:	Notes
GMC	24	<i>Ribes alpinum</i>	Green Mound Currant	5 gal	3'-4'	Cont. Well rooted, full and bushy
HCB	21	<i>Symphoricarpos x chenaultii</i> "Hancock"	Hancock Coral Berry	5 gal	2'	Cont. Well rooted, full and bushy
CC	37	<i>Caryopteris x clandonensis</i>	Blue Mist Spirea	5 gal	3'-4'	Cont. Well rooted, full and bushy
TSQ	57	<i>Chaenactis x superba</i> "Yemas Scarlet"	Texas Scarlet Quince	5 gal	2'-3'	Cont. Well rooted, full and bushy
GDP	58	<i>Potentilla fruticosa</i> "Gold Drop"	Gold Drop Potentilla	5 gal	2'-3'	Cont. Well rooted, full and bushy
PBS	19	<i>Prunus besseyi</i> "Pavanne Buttes"	Creeping Western Sandcherry	5 gal	15'-30"	Cont. Well rooted, full and bushy
GLS	13	<i>Rhus aromatica</i> "Gro-Low"	Gro-Low Sumac	5 gal	2'-3'	Cont. Well rooted, full and bushy
TLS	77	<i>Rhus trilobata</i> "Autumn Amber"	Autumn Amber Sumac	5 gal	12'-18"	Cont. Well rooted, full and bushy
WSB	14	<i>Symphoricarpos albus</i>	White Snowberry	5 gal	3'-6'	Cont. Well rooted, full and bushy
RBC	17	<i>Symphoricarpos orbiculatus</i>	Coral Berry	5 gal	2'-3'	Cont. Well rooted, full and bushy
CL	3	<i>Syringa vulgaris</i>	Common Lilac	5 gal	8'-10'	Cont. Well rooted, full and bushy
WFT	8	<i>Viburnum Mohican</i>	Waylating Tree Viburnum	5 gal	6'-8'	Cont. Well rooted, full and bushy
GRASSES						
Sym.	Qty	Botanical Name:	Common Name:	Size:	Mature Height:	Notes
FRG	49	<i>Calamagrostis acutiflora</i> Karl Foerster	Feather Reed	1 gal.	3'-4'	Cont. Well rooted, full and bushy
MLM	7	<i>Miscanthus sinensis</i> "Morning Light"	Morning light miscanthus	1 gal.	2'-3'	Cont. Well rooted, full and bushy
LBS	42	<i>Schizachyrium scoparium</i> "The Blues"	The Blues Little Bluestem	1 gal.	3'-5'	Cont. Well rooted, full and bushy
PERENNIALS						
Sym.	Qty	Botanical Name:	Common Name:	Size:	Mature Height:	Notes
SDO	152	<i>Heimerocallis</i> "Stella d'oro"	Daylily	1 gal.	15"	Cont. Well rooted, full and bushy
SMN	27	<i>Salvia nemorosa</i> "May Night"	May Night	1 gal.	18"-24"	Cont. Well rooted, full and bushy
MULCH						
Quan.	Type	Name	Size:	Mature Height:	Notes	
	Wood Mulch	Western Red Cedar	shredded	shredded	Free of sticks, clumps and debris	
TURF						
Quan.	Type	Seed Rate	Mature Height:	Notes		
13,321 sf	Native Grass Mix (Low Grow Grass Mix)	25 lbs/acre	12"	Available from Arkansas Valley Seed		
	30% Ephraim Crested Wheatgrass	7.5				
	25% Sheep Fescue	6.25				
	20% Perennial Rye	5				
	15% Chewings Fescue	3.75				
	10% Kentucky Bluegrass	2.5				

Boulder County Administrative Services
Building Services Division - Architects
2020 13th Street
Boulder, Colorado 80302
Tel: 303-441-3957
Fax: 303-441-1718





Grow Studio LLC
154 So. 35th Street
Boulder, CO 80305
303.963.5452

REVISION	DATE
Tec Doc Review	10/07/2013
	07/15/2013

Applicant Information
Boulder County Administrative Services
Building Services Division - Architects
P.O. Box 471
Boulder, Colorado 80306
Application Type: TEC DOC REVIEW
Case No.:

BOULDER COUNTY CORONER FACILITY
5600 Flatiron Parkway
Boulder, Colorado 80301

Project No: 13-005














LANDSCAPE PLAN
SOUTH

L1.02

IRRIGATION CONSTRUCTION NOTES

1. DRAWINGS AND BASIS INFORMATION - ALL BASE AND PLANTING INFORMATION HAVE BEEN PROVIDED BY GROUND STUDIO. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY HYDROSYSTEMS OF ANY DISCREPANCIES BETWEEN THE UTILITY OR PLANTING SPECIFICATIONS AND THE DESIGN. THE DESIGNER SHALL BE RESPONSIBLE TO UPDATE THE DESIGN TO REFLECT ANY CHANGES TO THE SPECIFICATIONS FOR ANY ADDITIONAL PROJECT REQUIREMENTS.
2. SYSTEM PRESSURE - HYDROSYSTEMS (HYDRO) HAS CONTACTED THE LOCAL WATER DISTRICT THAT SERVES THIS SITE AND THEY HAVE BEEN TOLD THAT THE STATIC WATER PRESSURE IN THIS AREA SHOULD BE 85 PSI. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRESSURE PRIOR TO COMMENCING ANY CONSTRUCTION AND NOTIFY HYDROSYSTEMS OF ANY VARIANCES FROM THE STATED PRESSURE. IF CONTRACTOR FAILS TO FIELD VERIFY PRESSURE AND/OR NOTIFY HYDROSYSTEMS OF ANY VARIANCES FROM THIS PRESSURE, THEN THE DESIGNER SHALL CONSIDER THE ACTUAL SITE PRESSURE. THIS SYSTEM HAS BEEN DESIGNED FOR A REQUIRED STATIC PRESSURE OF 85 PSI MINIMUM.
3. IRRIGATION SYSTEM OPERATION INTENT - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO IRRIGATE THE ESTABLISHED LANDSCAPE WITHIN A THREE NIGHT PER WEEK, SIX AND ONE HALF HOUR PER NIGHT WATERING WINDOW. THE ESTABLISHED WATERING WILL REQUIRE UP TO TWICE AS MUCH IRRIGATION FOR A FOUR TO SIX WEEK PERIOD. THE DESIGN IS BASED ON THE FOLLOWING PROPOSED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 30" TO 36" DEEP AVERAGE WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS. BLUESGRASS TURF 1.75" PER WEEK PEAK SEASON
NATIVE SEED MIXES 1.00" PER WEEK PEAK SEASON (TWO SEASONS)
NOTE: IT IS THE INTENT OF THIS DESIGN THAT NATIVE AREAS WOULD ONLY BE IRRIGATED FOR ESTABLISHMENT.
4. EQUIPMENT INSTALLATION - IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN THE PROPOSED FLOOD AND WITHIN LANDSCAPED AREAS. ANY EQUIPMENT SHOULD BE INSTALLED WITHIN 15' OF THE EDGE OF ANY PAVED SURFACES. ALL VALVE BOXES SHALL BE PLACED A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALE.
5. SLEEVING - ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVING SHALL BE INSTALLED IN THE 6" AND 8" QUANTITIES SHOWN ON PLANS OR BASED ON THE SCHEDULE BELOW, WHERE SLEEVES ARE SHOWN BUT NOT LABELED FOLLOW THE SCHEDULE BELOW. ALL MAINLINE CONTROL WIRES AND DRIP LINES MINIMUM SIZING QUANTITY REQUIRED (MINIMUM & QUANTITY)
- | | |
|--------------------|------------|
| 3/4" - 1/2" PIPING | 2" PVC (1) |
| 1/2" - 3/4" PIPING | 4" PVC (1) |
| 1-20 CONTROL WIRES | 3" PVC (1) |
6. POP-UP SPRAY NOZZLES - CONTRACTOR TO INSTALL PLASTIC NOZZLES ON ALL POP-UP SPRAY HEADS. INSTALL 1/2" SERIES NOZZLES ON ALL HEADS SPACED AT 1' TO 14'. INSTALL 1/2" SERIES NOZZLES ON ALL HEADS SPACED 16' TO 21'. INSTALL 3/4" SERIES NOZZLES ON ALL HEADS SPACED LESS THAN 1' TO 14' HEADS WITH AN 1/8" OR 3/16" OR 1/4" OR 5/8" OR 3/4" OR 1" OR 1 1/2" OR 2" OR 2 1/2" OR 3" OR 3 1/2" OR 4" OR 4 1/2" OR 5" OR 5 1/2" OR 6" OR 6 1/2" OR 7" OR 7 1/2" OR 8" OR 8 1/2" OR 9" OR 9 1/2" OR 10" OR 10 1/2" OR 11" OR 11 1/2" OR 12" OR 12 1/2" OR 13" OR 13 1/2" OR 14" OR 14 1/2" OR 15" OR 15 1/2" OR 16" OR 16 1/2" OR 17" OR 17 1/2" OR 18" OR 18 1/2" OR 19" OR 19 1/2" OR 20" OR 20 1/2" OR 21" OR 21 1/2" OR 22" OR 22 1/2" OR 23" OR 23 1/2" OR 24" OR 24 1/2" OR 25" OR 25 1/2" OR 26" OR 26 1/2" OR 27" OR 27 1/2" OR 28" OR 28 1/2" OR 29" OR 29 1/2" OR 30" OR 30 1/2" OR 31" OR 31 1/2" OR 32" OR 32 1/2" OR 33" OR 33 1/2" OR 34" OR 34 1/2" OR 35" OR 35 1/2" OR 36" OR 36 1/2" OR 37" OR 37 1/2" OR 38" OR 38 1/2" OR 39" OR 39 1/2" OR 40" OR 40 1/2" OR 41" OR 41 1/2" OR 42" OR 42 1/2" OR 43" OR 43 1/2" OR 44" OR 44 1/2" OR 45" OR 45 1/2" OR 46" OR 46 1/2" OR 47" OR 47 1/2" OR 48" OR 48 1/2" OR 49" OR 49 1/2" OR 50" OR 50 1/2" OR 51" OR 51 1/2" OR 52" OR 52 1/2" OR 53" OR 53 1/2" OR 54" OR 54 1/2" OR 55" OR 55 1/2" OR 56" OR 56 1/2" OR 57" OR 57 1/2" OR 58" OR 58 1/2" OR 59" OR 59 1/2" OR 60" OR 60 1/2" OR 61" OR 61 1/2" OR 62" OR 62 1/2" OR 63" OR 63 1/2" OR 64" OR 64 1/2" OR 65" OR 65 1/2" OR 66" OR 66 1/2" OR 67" OR 67 1/2" OR 68" OR 68 1/2" OR 69" OR 69 1/2" OR 70" OR 70 1/2" OR 71" OR 71 1/2" OR 72" OR 72 1/2" OR 73" OR 73 1/2" OR 74" OR 74 1/2" OR 75" OR 75 1/2" OR 76" OR 76 1/2" OR 77" OR 77 1/2" OR 78" OR 78 1/2" OR 79" OR 79 1/2" OR 80" OR 80 1/2" OR 81" OR 81 1/2" OR 82" OR 82 1/2" OR 83" OR 83 1/2" OR 84" OR 84 1/2" OR 85" OR 85 1/2" OR 86" OR 86 1/2" OR 87" OR 87 1/2" OR 88" OR 88 1/2" OR 89" OR 89 1/2" OR 90" OR 90 1/2" OR 91" OR 91 1/2" OR 92" OR 92 1/2" OR 93" OR 93 1/2" OR 94" OR 94 1/2" OR 95" OR 95 1/2" OR 96" OR 96 1/2" OR 97" OR 97 1/2" OR 98" OR 98 1/2" OR 99" OR 99 1/2" OR 100" OR 100 1/2" OR 101" OR 101 1/2" OR 102" OR 102 1/2" OR 103" OR 103 1/2" OR 104" OR 104 1/2" OR 105" OR 105 1/2" OR 106" OR 106 1/2" OR 107" OR 107 1/2" OR 108" OR 108 1/2" OR 109" OR 109 1/2" OR 110" OR 110 1/2" OR 111" OR 111 1/2" OR 112" OR 112 1/2" OR 113" OR 113 1/2" OR 114" OR 114 1/2" OR 115" OR 115 1/2" OR 116" OR 116 1/2" OR 117" OR 117 1/2" OR 118" OR 118 1/2" OR 119" OR 119 1/2" OR 120" OR 120 1/2" OR 121" OR 121 1/2" OR 122" OR 122 1/2" OR 123" OR 123 1/2" OR 124" OR 124 1/2" OR 125" OR 125 1/2" OR 126" OR 126 1/2" OR 127" OR 127 1/2" OR 128" OR 128 1/2" OR 129" OR 129 1/2" OR 130" OR 130 1/2" OR 131" OR 131 1/2" OR 132" OR 132 1/2" OR 133" OR 133 1/2" OR 134" OR 134 1/2" OR 135" OR 135 1/2" OR 136" OR 136 1/2" OR 137" OR 137 1/2" OR 138" OR 138 1/2" OR 139" OR 139 1/2" OR 140" OR 140 1/2" OR 141" OR 141 1/2" OR 142" OR 142 1/2" OR 143" OR 143 1/2" OR 144" OR 144 1/2" OR 145" OR 145 1/2" OR 146" OR 146 1/2" OR 147" OR 147 1/2" OR 148" OR 148 1/2" OR 149" OR 149 1/2" OR 150" OR 150 1/2" OR 151" OR 151 1/2" OR 152" OR 152 1/2" OR 153" OR 153 1/2" OR 154" OR 154 1/2" OR 155" OR 155 1/2" OR 156" OR 156 1/2" OR 157" OR 157 1/2" OR 158" OR 158 1/2" OR 159" OR 159 1/2" OR 160" OR 160 1/2" OR 161" OR 161 1/2" OR 162" OR 162 1/2" OR 163" OR 163 1/2" OR 164" OR 164 1/2" OR 165" OR 165 1/2" OR 166" OR 166 1/2" OR 167" OR 167 1/2" OR 168" OR 168 1/2" OR 169" OR 169 1/2" OR 170" OR 170 1/2" OR 171" OR 171 1/2" OR 172" OR 172 1/2" OR 173" OR 173 1/2" OR 174" OR 174 1/2" OR 175" OR 175 1/2" OR 176" OR 176 1/2" OR 177" OR 177 1/2" OR 178" OR 178 1/2" OR 179" OR 179 1/2" OR 180" OR 180 1/2" OR 181" OR 181 1/2" OR 182" OR 182 1/2" OR 183" OR 183 1/2" OR 184" OR 184 1/2" OR 185" OR 185 1/2" OR 186" OR 186 1/2" OR 187" OR 187 1/2" OR 188" OR 188 1/2" OR 189" OR 189 1/2" OR 190" OR 190 1/2" OR 191" OR 191 1/2" OR 192" OR 192 1/2" OR 193" OR 193 1/2" OR 194" OR 194 1/2" OR 195" OR 195 1/2" OR 196" OR 196 1/2" OR 197" OR 197 1/2" OR 198" OR 198 1/2" OR 199" OR 199 1/2" OR 200" OR 200 1/2" OR 201" OR 201 1/2" OR 202" OR 202 1/2" OR 203" OR 203 1/2" OR 204" OR 204 1/2" OR 205" OR 205 1/2" OR 206" OR 206 1/2" OR 207" OR 207 1/2" OR 208" OR 208 1/2" OR 209" OR 209 1/2" OR 210" OR 210 1/2" OR 211" OR 211 1/2" OR

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL NO.
	HUNTER	PRO-06-FR03-00-CV-R WITH MPRO-ATOR NOZZLE	FORUP ROTARY SPRAY HEAD	1
	HUNTER	1-20-06-06-R W/ LOW ANGLE NOZZLE	GEAR DRIVEN ROTOR	2
	RAIN BIRD	FEBER-FR0-D	ELECTRIC CONTROL VALVE	3
	RAIN BIRD	5-NP	QUICK COUPLING VALVE	4
	RAINMASTER	REVIEG-1-T	ELECTRIC CONTROLLER	5
	HUNTER	WSP-CLK	RAIN SHUT-OFF DEVICE	6
	FEBCO	8157A	BACKFLOW PREVENTER	7
N/5	GUARDSHACK	GS-1	BACKFLOW PREVENTER ENCLOSURE	8
N/5	MATCO	201X	MANUAL DRAIN VALVE	9
		LINE SIZE	GATE VALVE	10
		PURPLE CLASS 200 BE - 2 1/2" 4 SPALLER	PVC MAINLINE	11
		PURPLE CLASS 200 BE	PVC LATERAL	11
		CLASS 160	PVC SLEEVEING	12
		PURPLE CLASS 200 BE - 1"	PVC DRIP LATERAL	11
	IRETROL	DURA-POL	POLY DRIP TUBING -3/4" MIN WIDTH	11 & 15
	RAIN BIRD	XCC-100-FRFR	DRIP VALVE ASSEMBLY	13
	N/5	XERI-BUG	DRIP LINE BLOW-OUT STUB DRIP EMITTERS WATER METER	14 15 N/6

ALL IRRIGATION COMPONENTS SHALL BE COLORED PURPLE FOR FUTURE NON-POTABLE WATER USE.

REFER TO SHEET

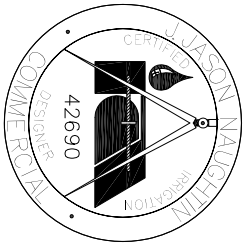
11.0.01 IRRIGATION NOTES AND SCHEDULE

11.02 - 11.03 IRRIGATION PLANS

11.04 - 11.05 IRRIGATION DETAILS



Know what's below.
Call before you dig.




DRAWN BY: JJN CHECKED BY: KJD

CHECKED BY: KJD

**2020 13th Street
Boulder, Colorado 80302
Tel: 303-441-3557
Fax: 303-441-1718**

**Boulder County Administrative Services
Building Services Division - Architects**



REVISION	DATE
Tec Doc Review	10/07/2013

07/15/2013

Applicant Information
Boulder County Administrative Services
Building Services Division - Architects
P.O. Box 471
Boulder, Colorado 80306

Application Type: *TEC DOC REVIEW*

Case No.: _____

No.: 11

**BOULDER COUNTY
CORONER FACILITY**

5600 Flatiron Parkway
Boulder, Colorado 80301

Project No: 13-005

IRRIGATION SCHEDULE AND NOTES

11.01

MATCHLINE - REFER TO SHEET 11.02

EXISTING SHERIFFS HEADQUARTERS

CONTRACTOR TO FIELD ADJUST EXISTING IRRIGATION TO NEW LANDSCAPE IN THIS AREA. CONTRACTOR TO PROTECT AND REPAIR OR REPLACE ALL EXISTING IRRIGATION AND PLANTING. CONTRACTOR TO HAND DIG LATERAL LINES AND CLOSURES AS SHOWN. CLOSURE LINES AND CLOSURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. CONTRACTOR TO MAINTAIN PROTECTION OF TREES DURING NEW CONSTRUCTION. DO NOT CUT ANY ROOTS WITHOUT CITY APPROVAL.

CONTRACTOR TO CAP EXISTING DRAIN PIPE TO TREE IN THIS AREA AND ABANDON EXISTING PIPING IN PLACE. CONTRACTOR TO CONNECT ONTO EXISTING DRAIN PIPE TO RESERVE ISLAND BUILDING LATERAL LOCATION. ABANDON UPSTREAM PIPING IN PLACE.

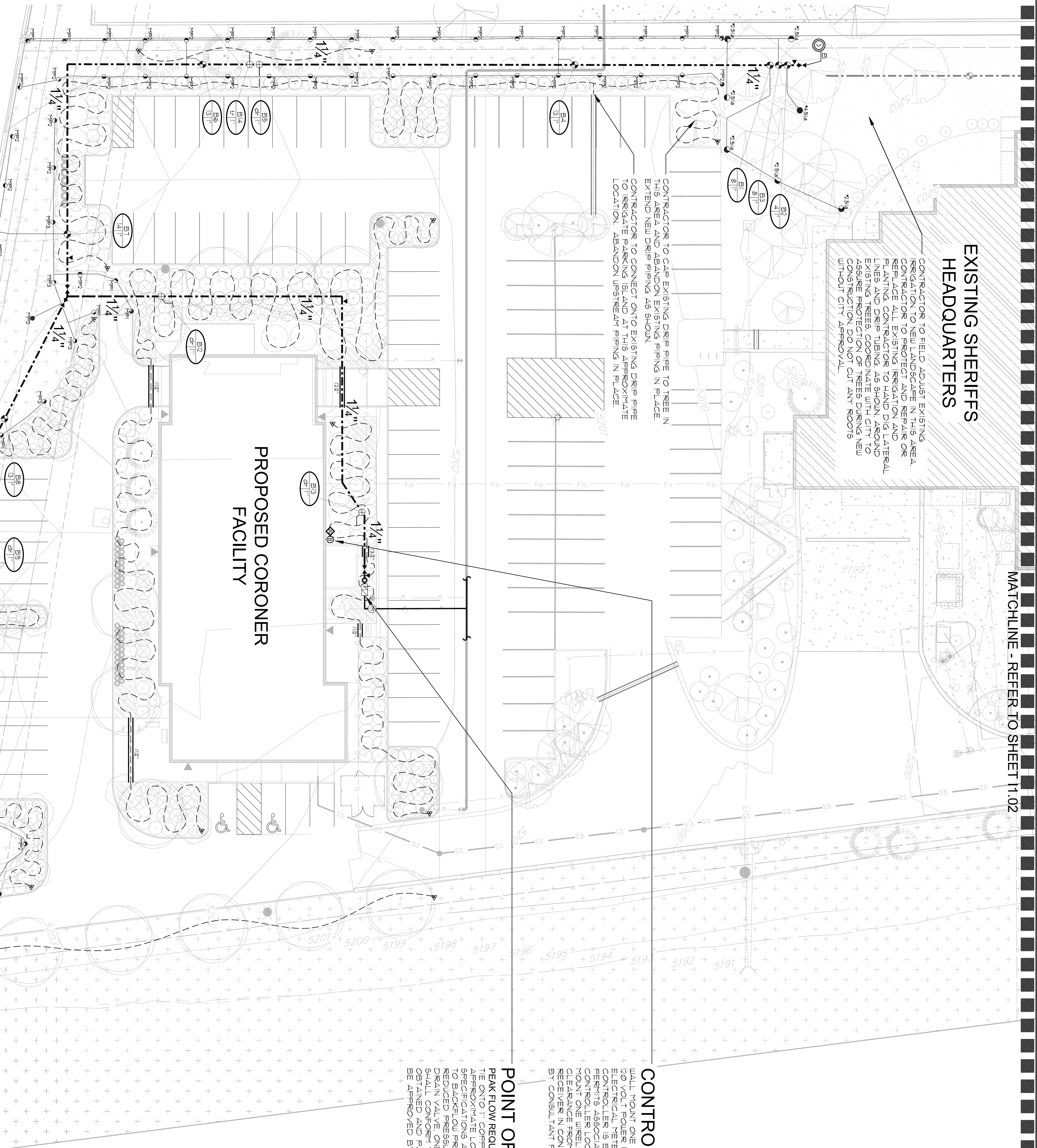
PROPOSED CORONER FACILITY

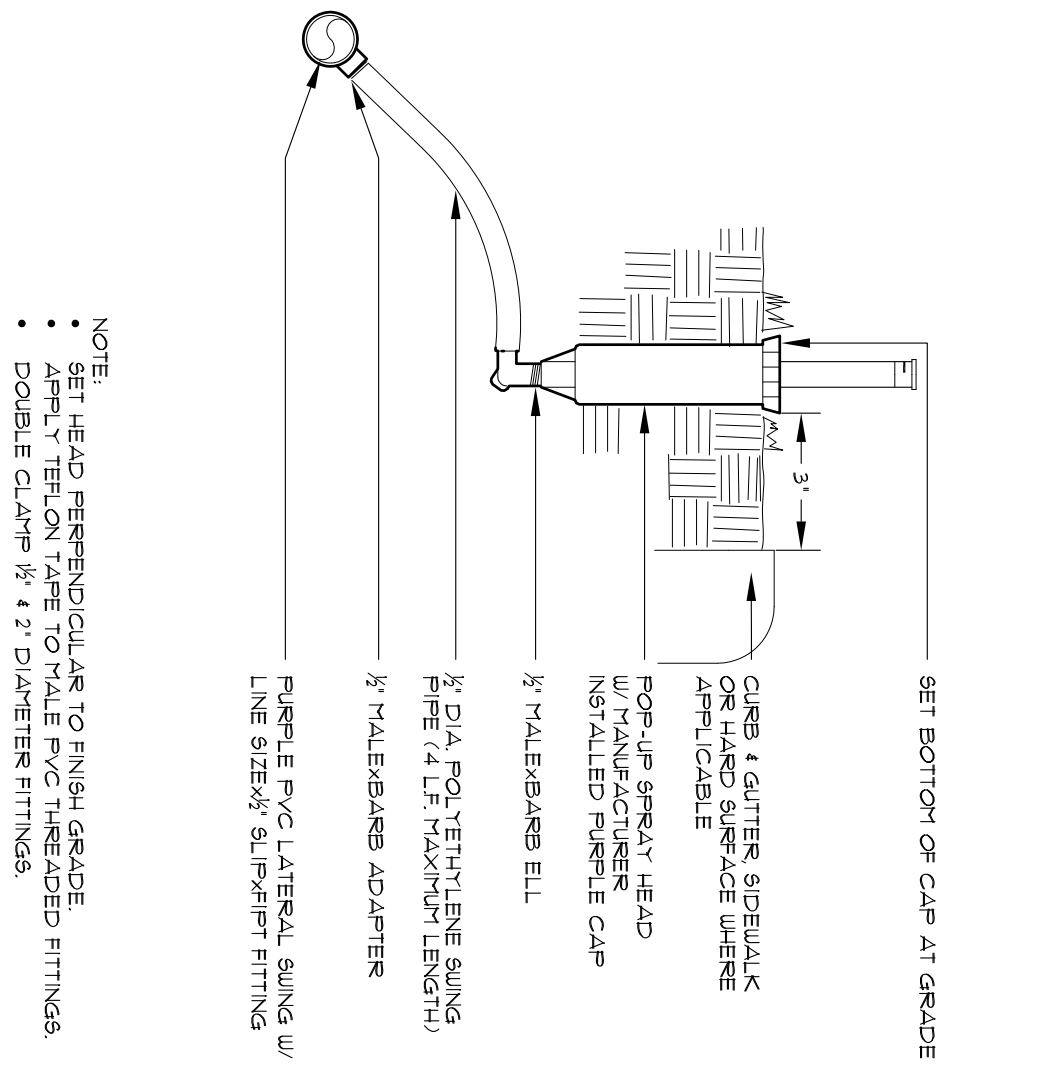
CONTROLLER LOCATION "B"

INSTALL POINT ONE (B) STATION RAINMASTER REELEGANT CONTROLLER AT INDICATED LOCATION. INSTALL FLOWER IS AVAILABLE WITHIN 30 FT OF CONTROLLER LOCATION. REELEGANT CONTROLLER IS BY CONTRACTOR WITH WORK CONFORMING TO LOCAL CODES. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID BY CONTRACTOR. FINAL POINT ONE WIRELESS HUNTER RAIN CLIP DEVICE ON BUILDING WHERE THERE IS 20 FT. OF CLEARANCE FROM ANY OVERHANG OR OBSTRUCTING FEATURE. INSTALL RAIN SENSOR RECEIVER IN CONTROLLER ENCLOSURE. FINAL RAIN SENSOR LOCATION SHALL BE APPROVED BY CONSULTANT PRIOR TO INSTALLATION.

POINT OF CONNECTION #2 - 1"

PEAK FLOW REQUIREMENT: 14 GPM. REQUIRED STATIC PRESSURE: 86 PSI. THE OFFER SUBMIT DOWNSTREAM WATER DELIVER TO 34' DEPTH IN THIS SPECIFICATIONS AND STANDARDS. EXTEND 1" TYPE K SOFT CORNER AT 48" MINIMUM DEPTH TO BACKFLOW PREVENTER LOCATION. INSTALL ONE (1) STOP AND WASTE VALVE. ONE (1) REDUCED PRESSURE BACKFLOW PREVENTER WITH PROTECTIVE ENCLOSURE. ONE MANUAL DRAIN VALVE. ONE QUICK COUPLING VALVE AND EXTEND PVC MAINLINE AS SHOWN. WORK SHALL CONFORM TO LOCAL CODE, FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID FOR BY CONTRACTOR. FINAL BACKFLOW PREVENTER LOCATION SHALL BE APPROVED BY OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.

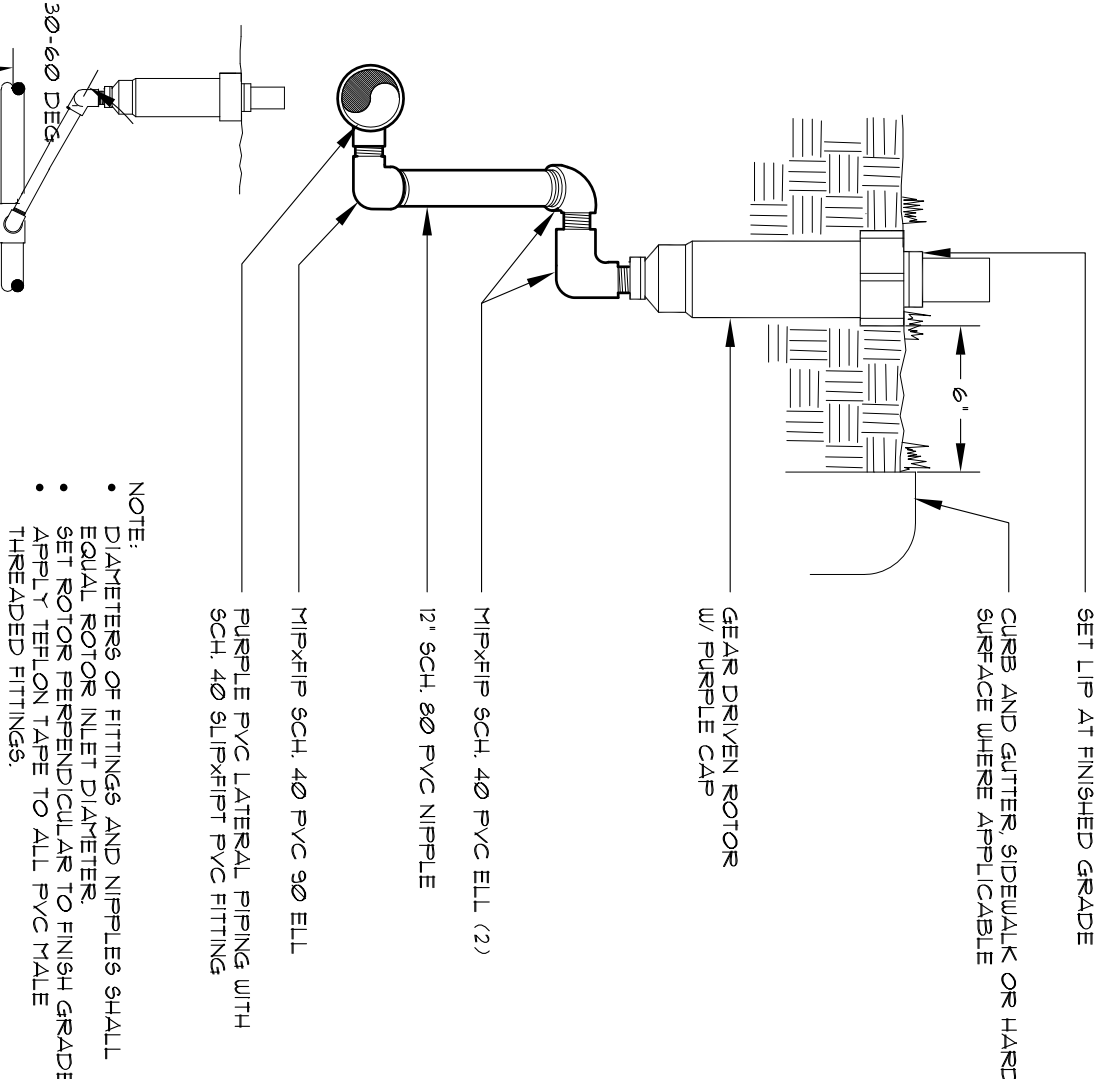




- NOTE:
- SET HEAD PERPENDICULAR TO FINISH GRADE.
 - APPLY TEFLOON TAPE TO MALE PVC THREADED FITTINGS.
 - DOUBLE CLAMP 1/2" & 3/4" DIAMETER FITTINGS.

POP-UP SPRAY HEAD

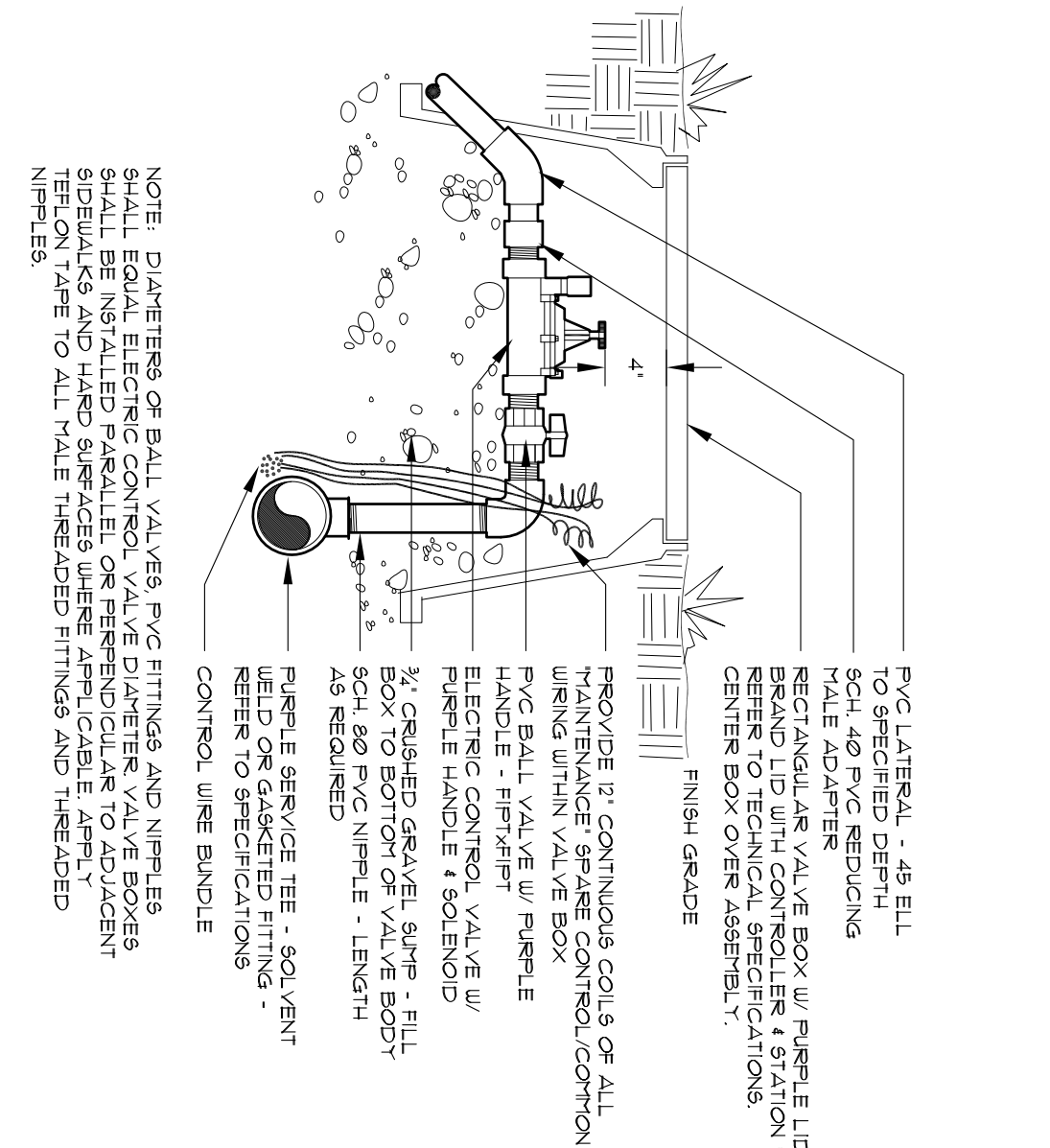
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- NOTE:
- DIAMETERS OF FITTINGS AND NIPPLES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO FINISH GRADE.
 - APPLY TEFLOON TAPE TO ALL PVC MALE THREADED FITTINGS.

GEAR DRIVEN ROTOR

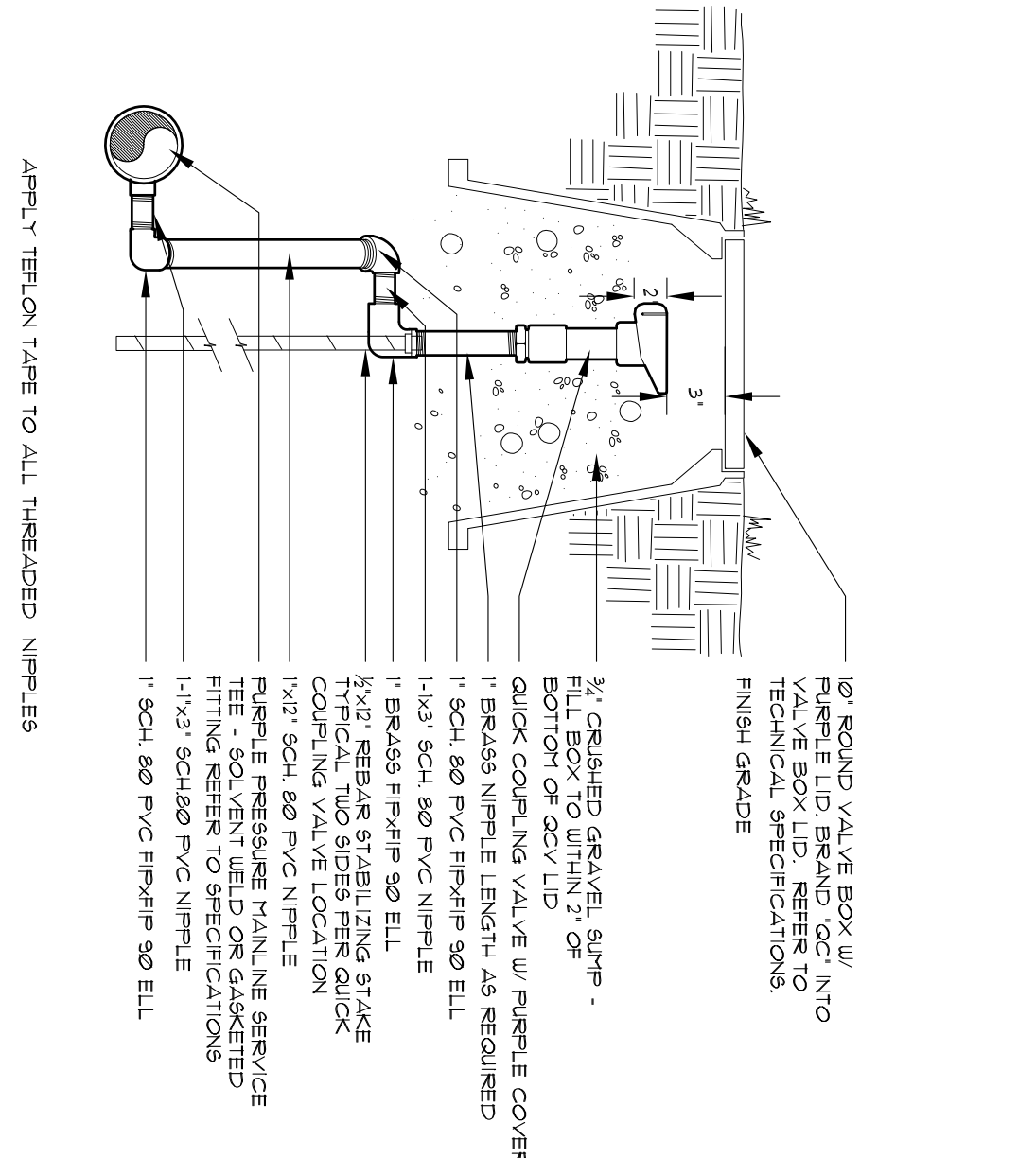
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- NOTE:
- DIAMETERS OF BALL VALVES PVC FITTINGS AND NIPPLES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ADJACENT TEFLOON TAPE TO ALL MALE THREADED FITTINGS AND THREADED NIPPLES.

ELECTRIC CONTROL VALVE

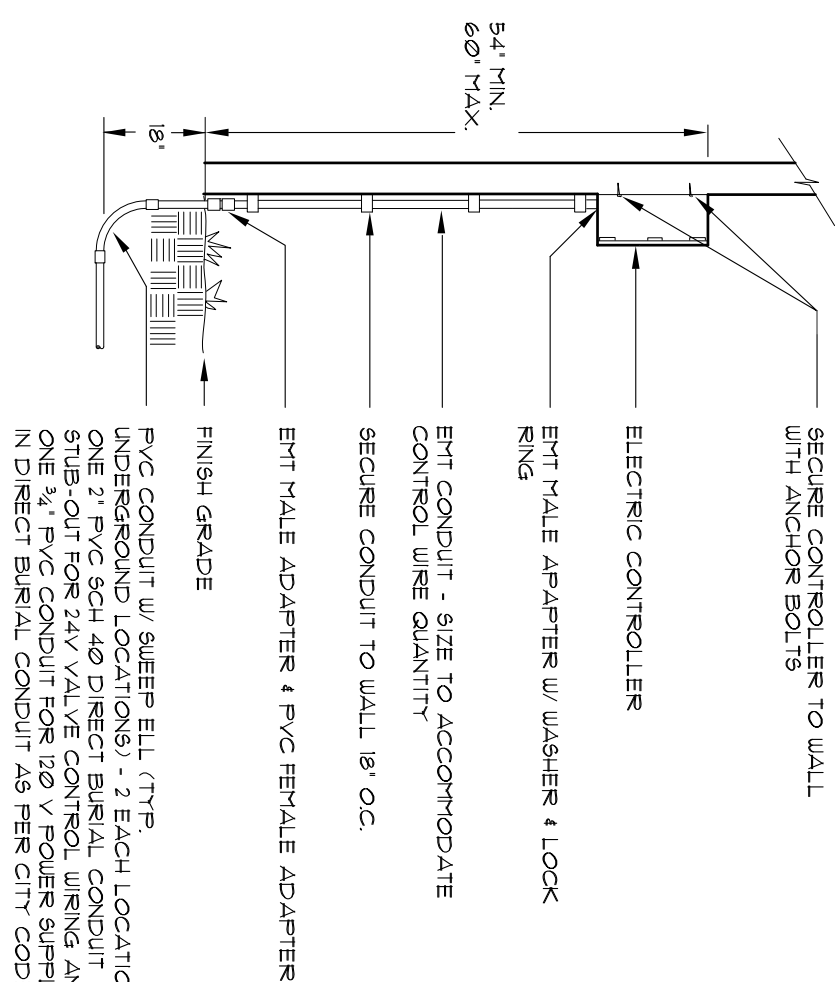
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APPLY TEFLOON TAPE TO ALL THREADED NIPPLES

QUICK COUPLING VALVE

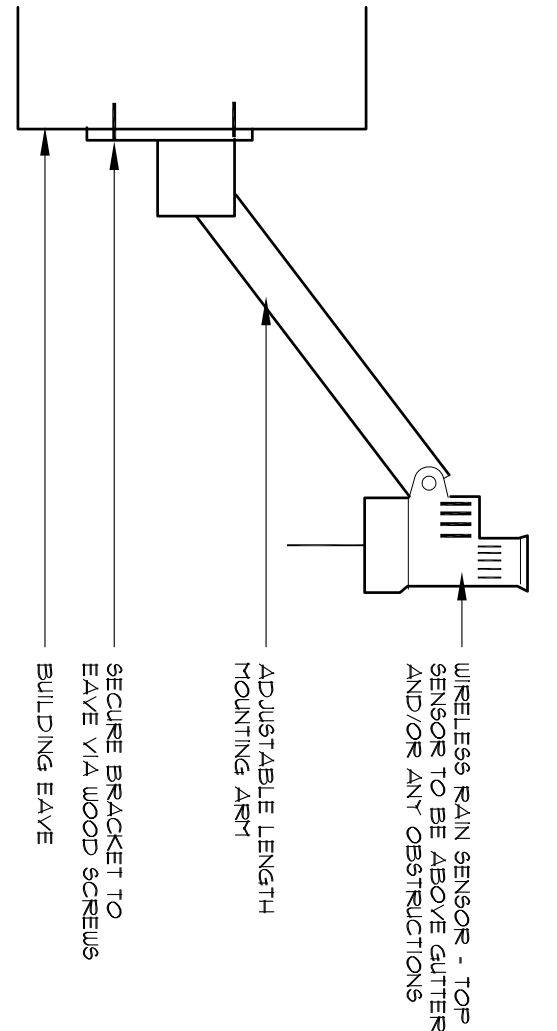
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- NOTE:
- PVC CONDUIT W/ SLEEVES ELL, TYPES UNDERGROUND LOCATIONS) - 1 EACH LOCATION - ONE 3/4" PVC SCH 40 DIRECT BURIAL CONDUIT - SUB-SOIL FOR 1/4" VALVE CONTROL WIRE AND NIPPLES - 1 EACH LOCATION - ONE 1/2" DIRECT BURIAL CONDUIT AS PER CITY CODE

ELECTRIC CONTROLLER

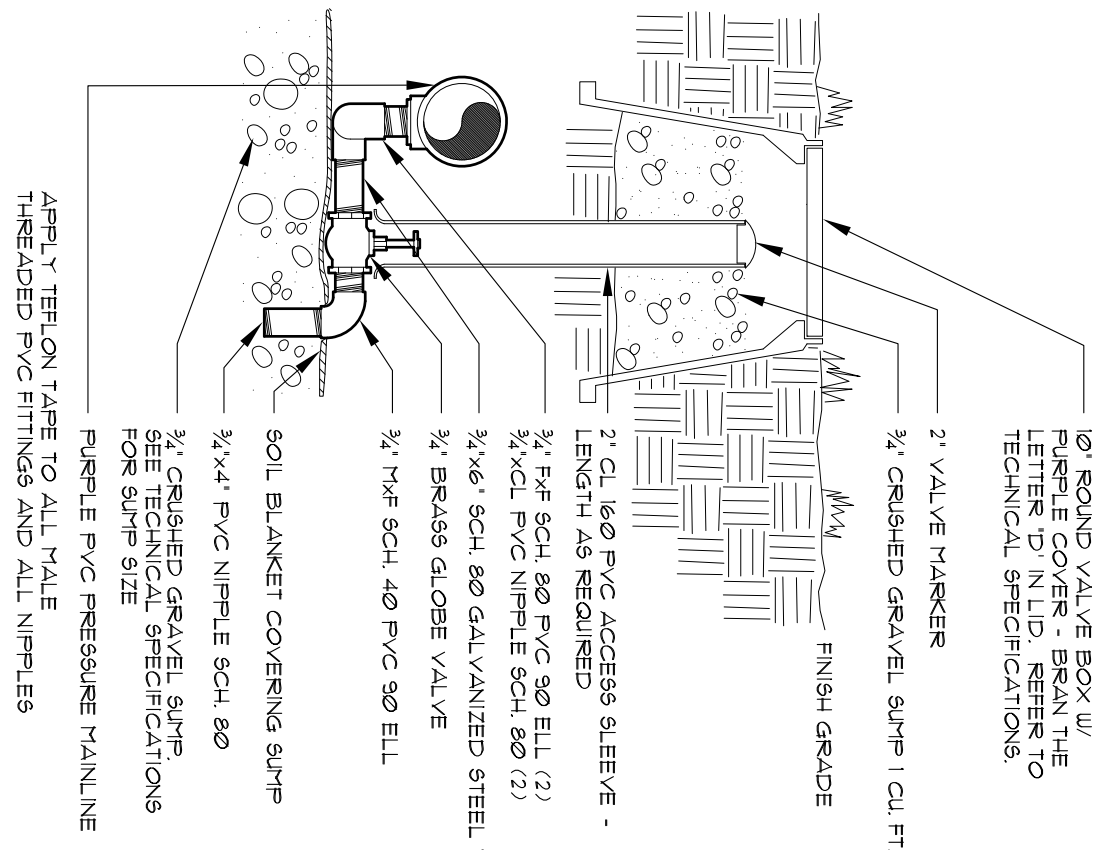
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NOTE: MOUNT RAIN SENSOR RECEIVER PER CONTROLLER DETAIL.

RAIN SENSOR

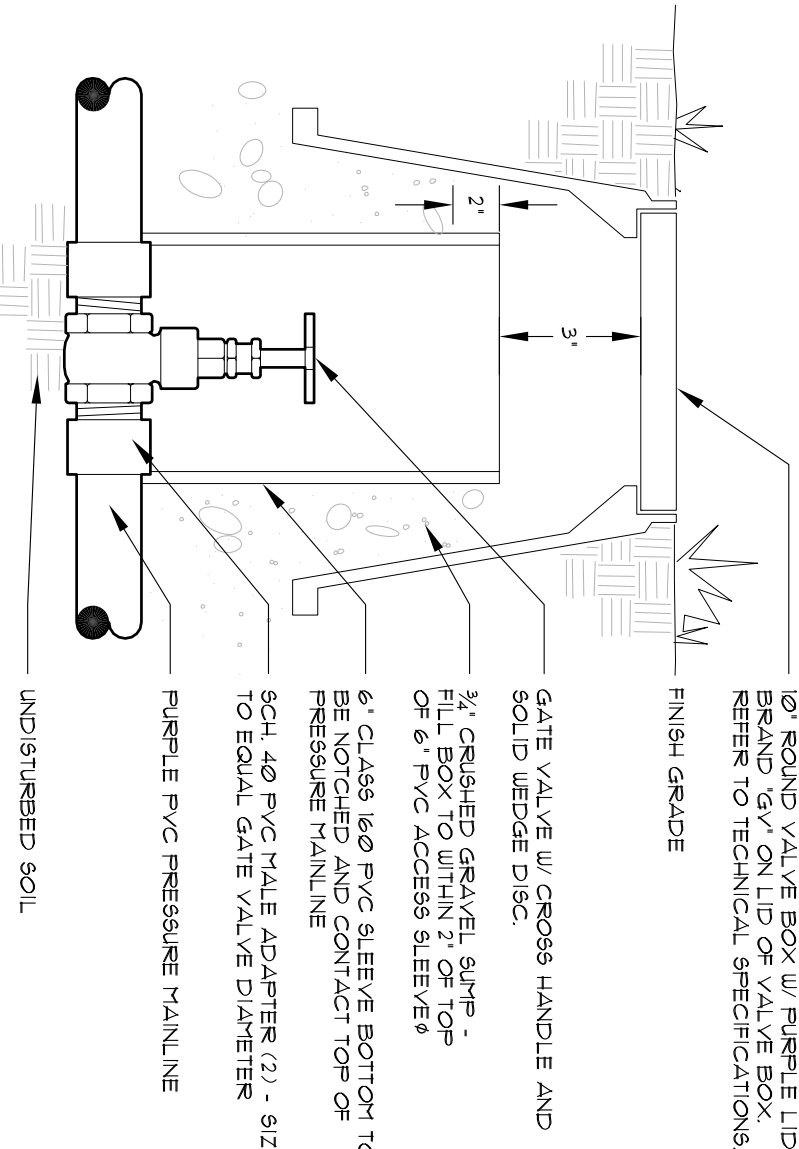
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APPLY TEFLOON TAPE TO ALL MALE THREADED PVC FITTINGS AND ALL NIPPLES

MANUAL DRAIN VALVE

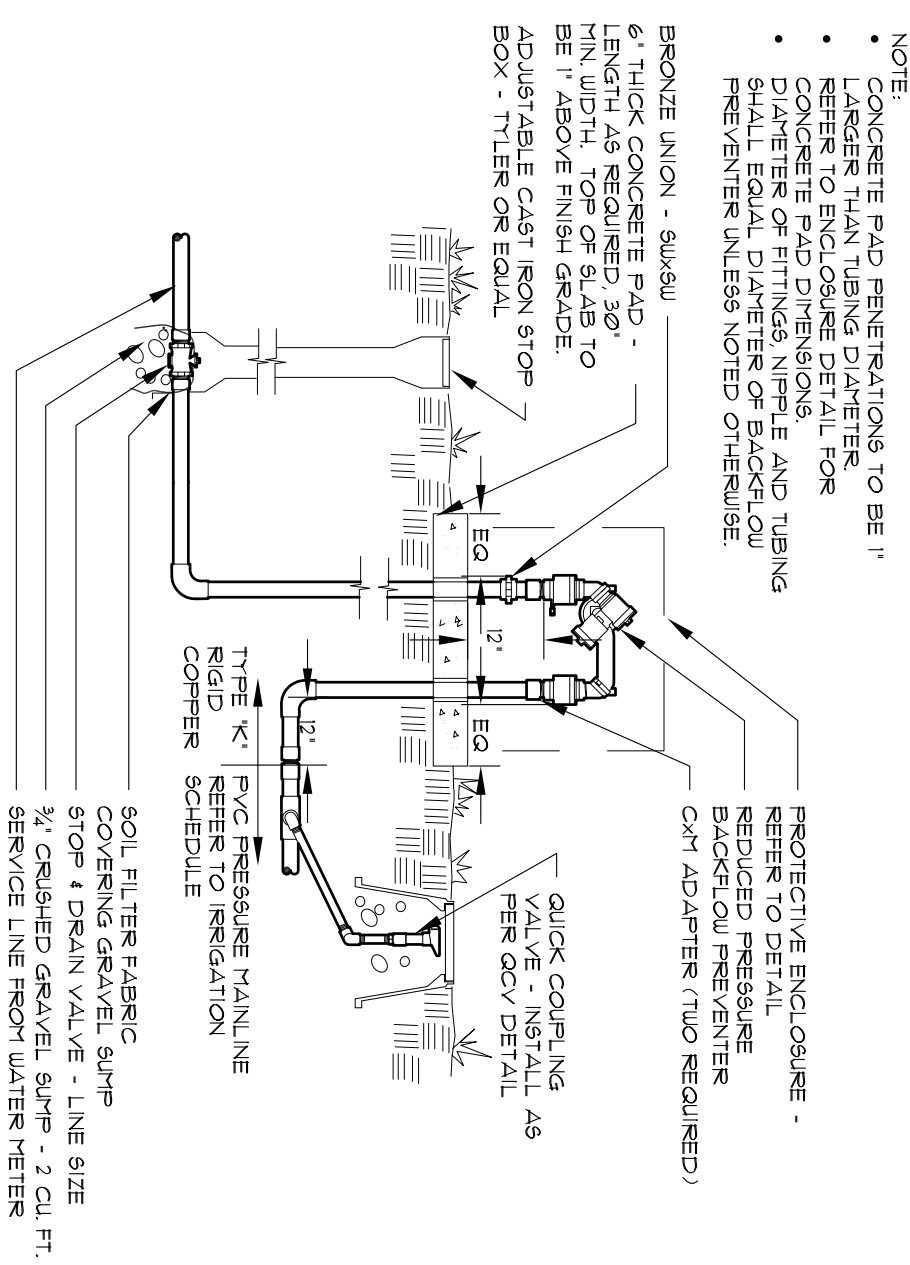
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UNDISTURBED SOIL

GATE VALVE

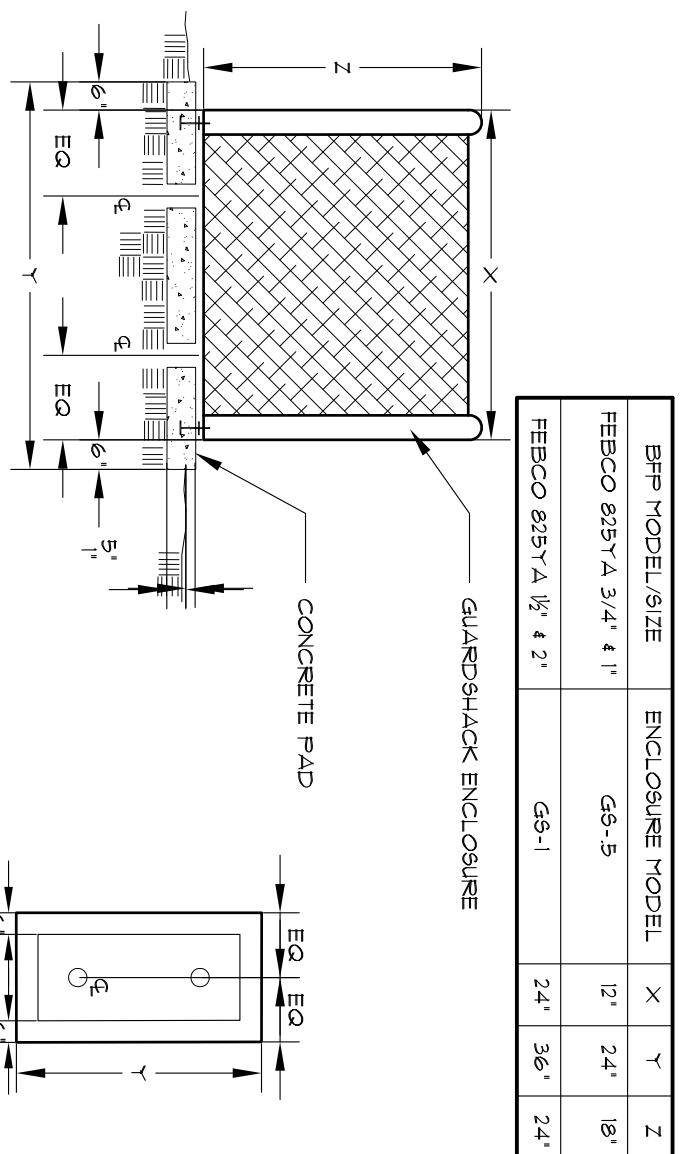
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- NOTE:
- CONCRETE PAD PENETRATIONS TO BE 1" LARGER THAN TUBING DIAMETER.
 - REFER TO ENCLOSURE DETAIL FOR BACKFLOW PREVENTER DETAIL.
 - DIAMETER OF FITTINGS NIPPLE AND TUBING SHALL EQUAL DIAMETER OF BACKFLOW PREVENTER UNLESS NOTED OTHERWISE.
 - BRONZE UNION - 3/4" BSW
 - 6" THICK CONCRETE PAD - LENGTH AS REQUIRED, 3/4" MINIMUM THICKNESS, 3/4" TO BE 1" ABOVE FINISH GRADE.
 - ADJUSTABLE CAST IRON STOP
 - VALVE - INSTALL AS PER DETAIL
 - QUICK COUPLING VALVE - INSTALL AS PER DETAIL
 - TYPE K PVC PRESSURE MAINLINE
 - RIGID COPPER SCHEDULE
 - SOIL FILTER FABRIC COVERING GRAVEL SURF - 1/2" DIA. DRAIN VALVE - LINE SIZE
 - STOP & DRAIN VALVE - LINE SIZE
 - SERVICE LINE FROM WATER METER

BACKFLOW PREVENTER

7



- NOTES:
- NOTED PENETRATIONS FOR BACKFLOW PREVENTER RISERS TO BE 1" LARGER THAN RISER DIAMETER.
 - TOP SURFACE OF CONCRETE PAD SHALL BE 1" ABOVE FINISH GRADE.
 - INSTALL ENCLOSURE ANCHORS AS PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE ULTIMATELY LISTED RATIO LOCK FOR ENCLOSURES PROVIDE ENCLOSURE IN FEDERAL GREEN COLOR UNLESS OTHERWISE NOTED (SEE SCHEDULE).

BACKFLOW ENCLOSURE

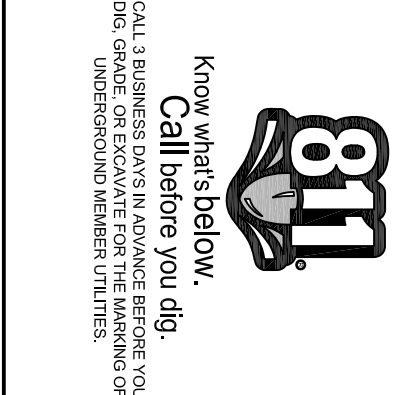
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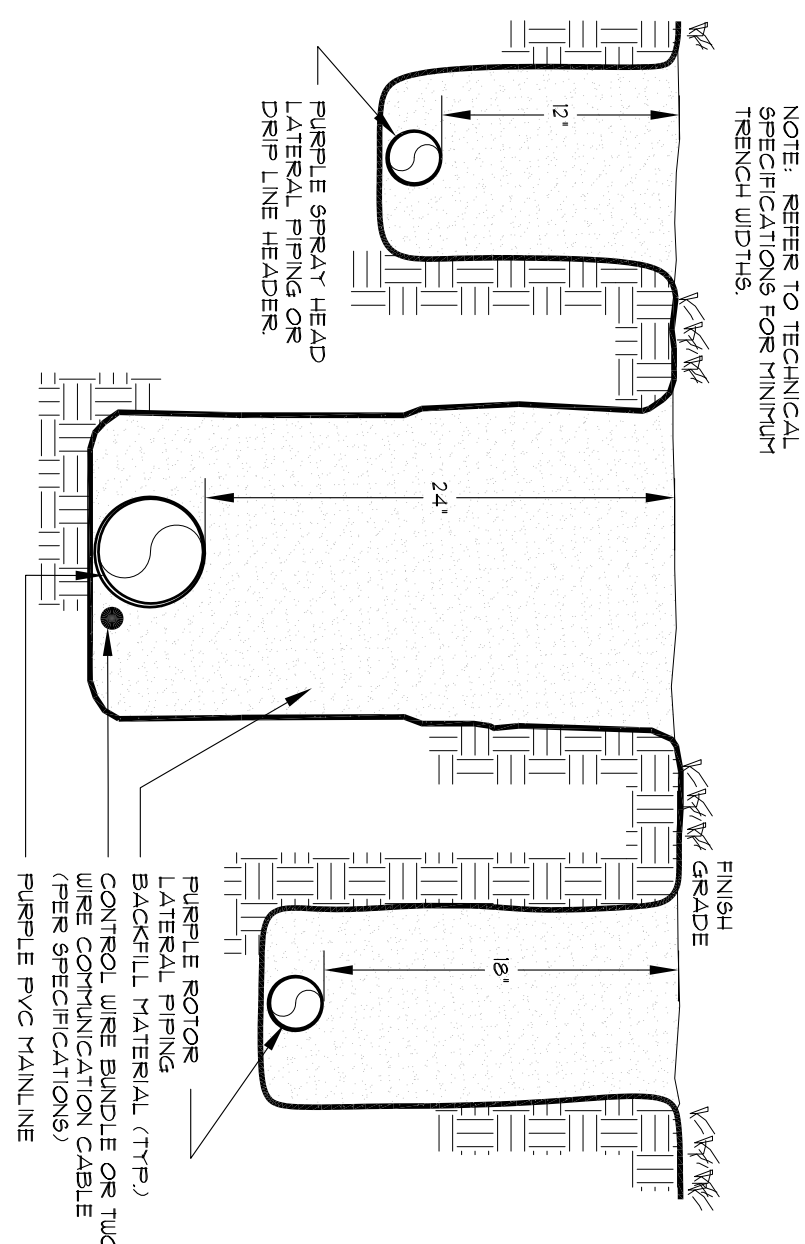
11.01 IRRIGATION NOTES AND SCHEDULE

11.02 - 11.03 IRRIGATION PLANS

11.04 - 11.05 IRRIGATION DETAILS

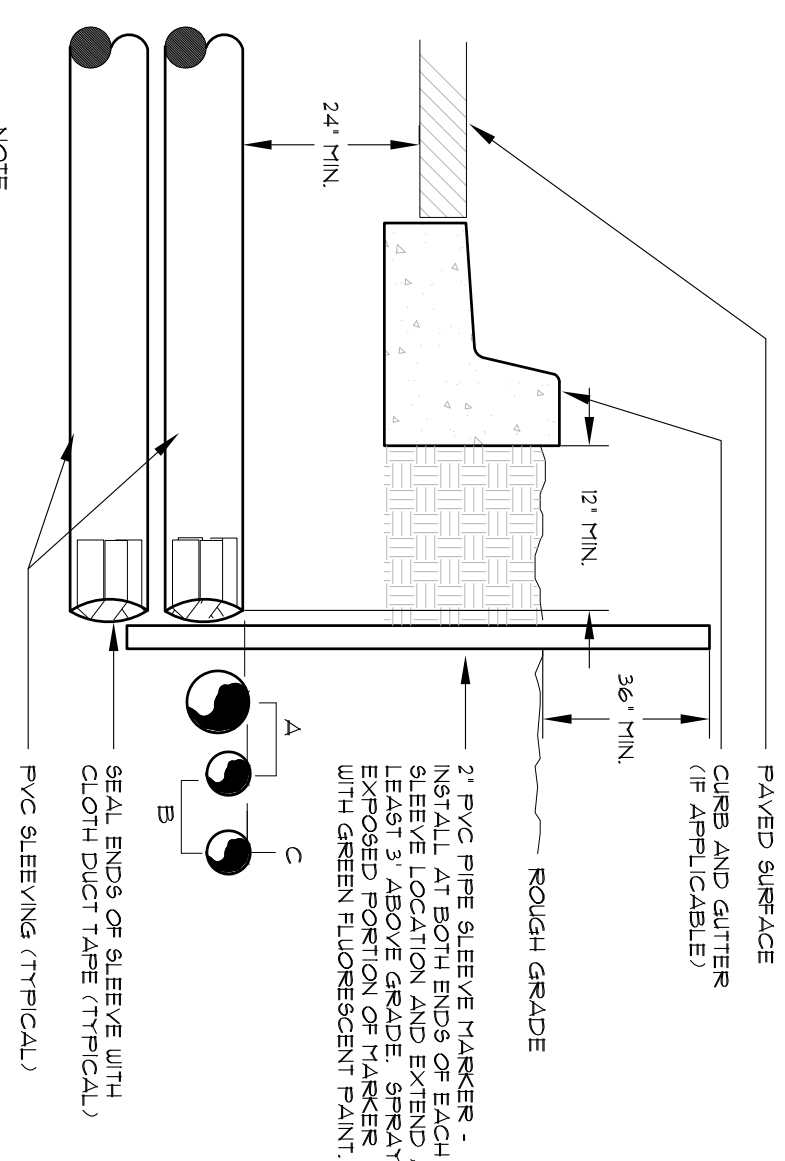


DRAWN BY: JLN		CHECKED BY: KJD	
Boulder County Administrative Services Building Services Division - Architects 2020 13th Street Boulder, Colorado 80302 Tel: 303-441-1718		DATE Rev Date Review 10/07/2013 07/15/2013	
Graw Studio LLC 1154 So. 35th Street Boulder, CO 80305 303.963.5452		Project No: 13405	
Boulder County Administrative Services Building Services Division - Architects P.O. Box 471 Boulder, Colorado 80306 Application Type: TEO DDC REVIEW Case No: ...		Boulder County CORONER FACILITY 5600 Flatiron Parkway Boulder, Colorado 80301	
11.04		IRRIGATION DETAILS	



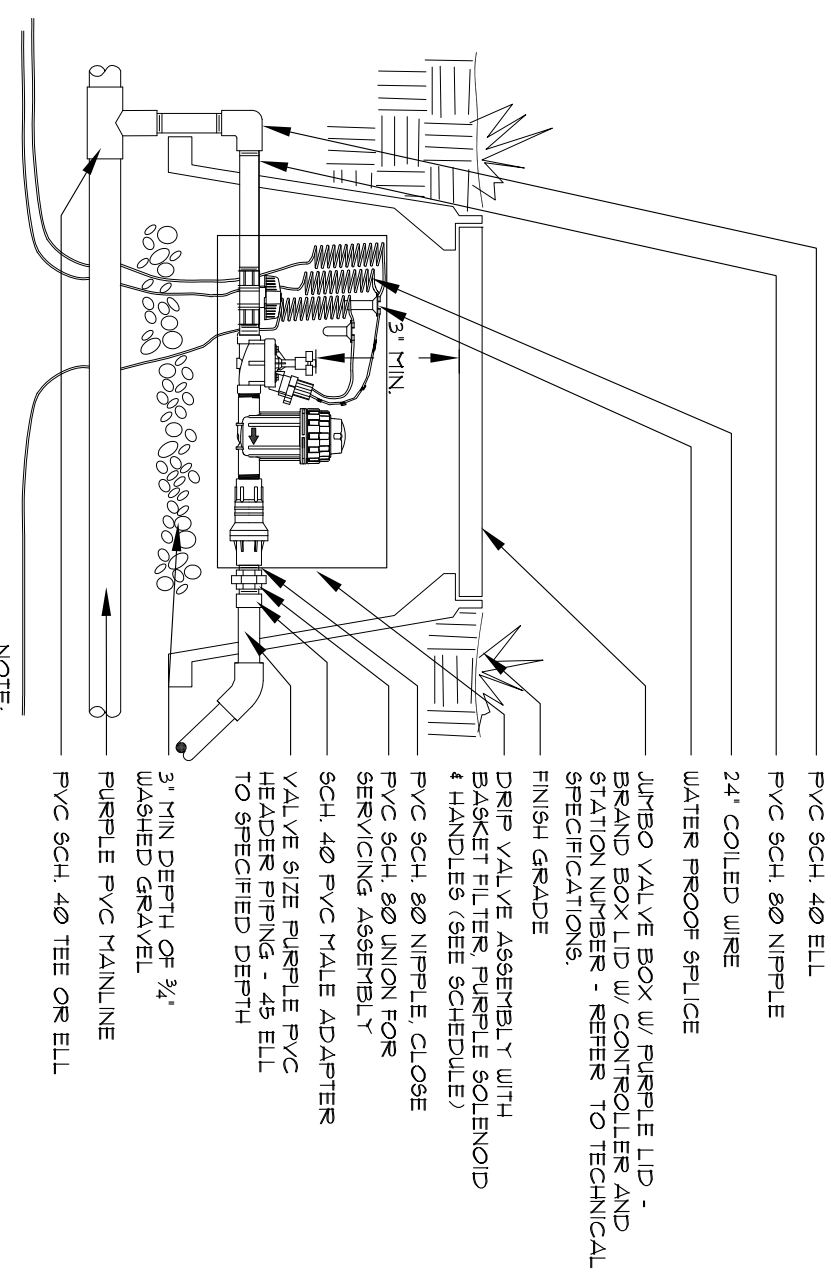
TRENCH

11



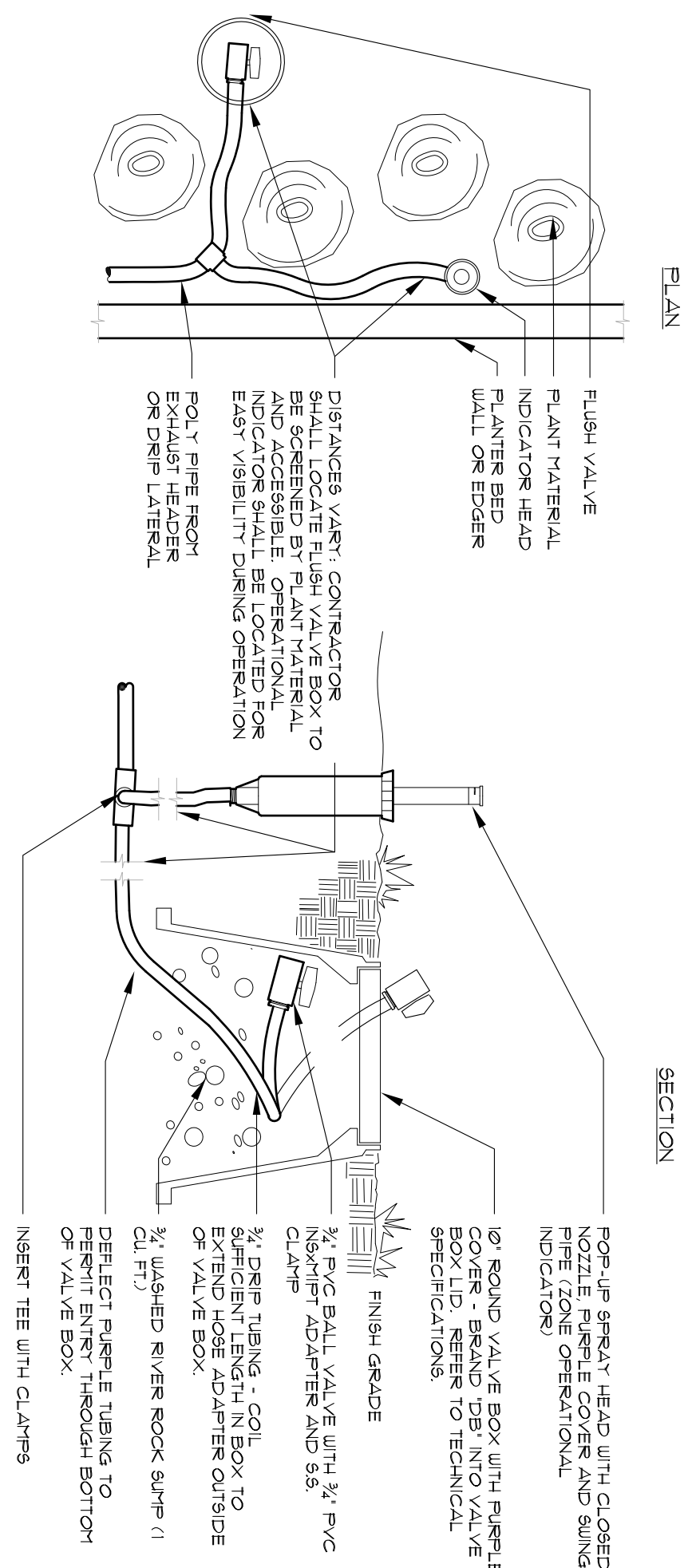
IRRIGATION SLEEVING

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DRIP VALVE

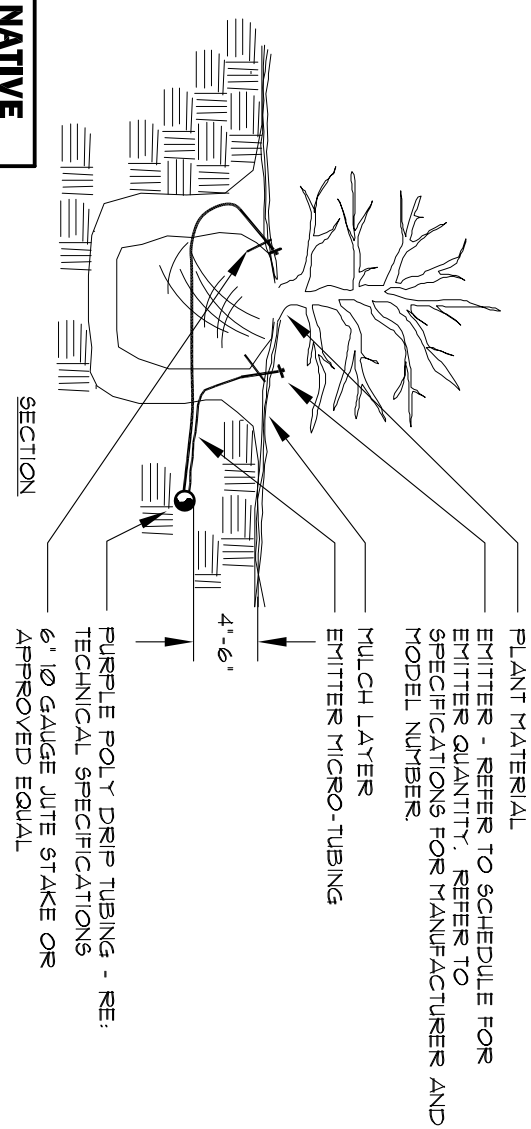
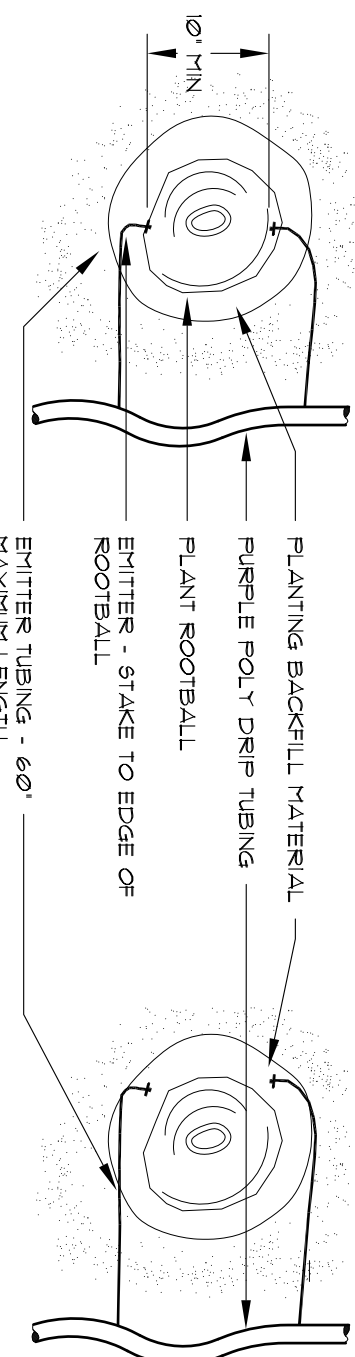
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DRIP FLUSH VALVE

WITH OPERATIONAL INDICATOR

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PLANT SIZE	EMITTER FLOW RATE	EMITTER QTY. AT MULCHED BED LOCATIONS	EMITTER QTY. AT NATIVE SEED LOCATIONS
1 - 3 GALLON MATERIAL	0.5 GPH	ONE EACH	ONE EACH
5 GALLON MATERIAL	0.5 GPH	TWO EACH	TWO EACH
8 1/2 GALLON TREE	1.0 GPH	THREE EACH	FOUR EACH
2 1/2 GALLON TREE	1.0 GPH	FOUR EACH	SIX EACH
2 1/2 GALLON TREE	1.0 GPH	SIX EACH	EIGHT EACH
3 GALLON TREE	1.0 GPH	EIGHT EACH	TEN EACH
3 1/2 GALLON TREE	1.0 GPH	NINE EACH	ELEVEN EACH
4 GALLON TREE	1.0 GPH	TEN EACH	TWELVE EACH
6 FT. CONIFEROUS TREE	1.0 GPH	FOUR EACH	SIX EACH
8 FT. CONIFEROUS TREE	1.0 GPH	SIX EACH	NINE EACH
10 FT. CONIFEROUS TREE	1.0 GPH	EIGHT EACH	TWELVE EACH
12 FT. CONIFEROUS TREE	1.0 GPH	TEN EACH	FOURTEEN EACH

DRIP EMITTER

BELOW GRADE

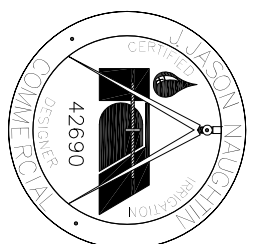
15




REFER TO SHEET

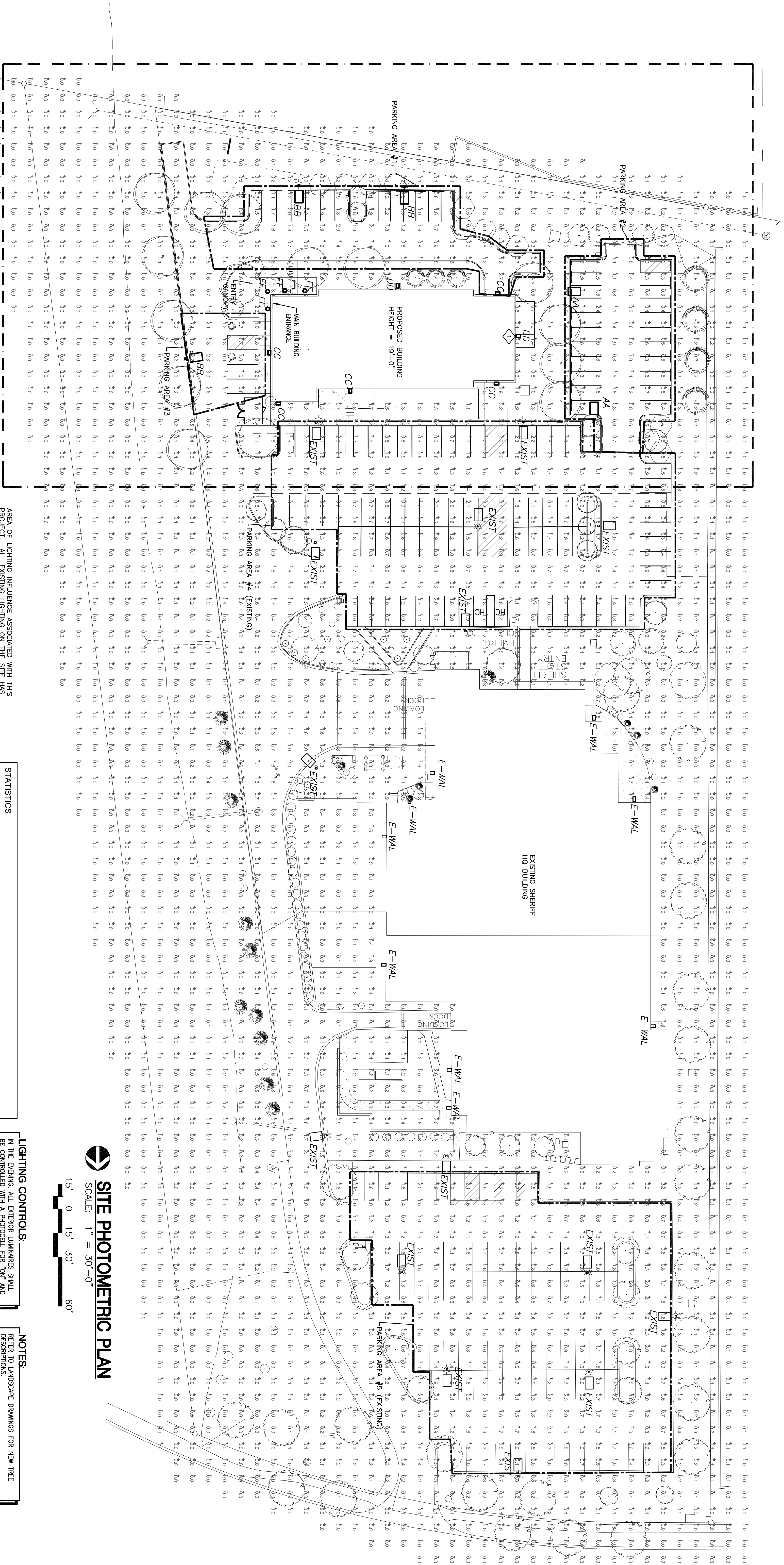
11.01 IRRIGATION NOTES AND SCHEDULE








11.02 - 11.03 IRRIGATION PLANS

11.04 - 11.05 IRRIGATION DETAILS



 DRAWN BY: JLN CHECKED BY: KJD	Boulder County Administrative Services Building Services Division - Architects 2020 13th Street Boulder, Colorado 80302 Tel: 303-441-3857 Fax: 303-441-1718						
	 Boulder County						
 GROW Studio LLC 1154 So. 35th Street Boulder, CO 80305 STUDIO 303.963.5452	<table><thead><tr><th>REVISION</th><th>DATE</th></tr></thead><tbody><tr><td><i>Per Doc Review</i></td><td>10/07/2013</td></tr><tr><td></td><td>07/15/2013</td></tr></tbody></table>	REVISION	DATE	<i>Per Doc Review</i>	10/07/2013		07/15/2013
REVISION	DATE						
<i>Per Doc Review</i>	10/07/2013						
	07/15/2013						
Applicant Information Boulder County Administrative Services Building Services Division - Architects P.O. Box 471 Boulder, Colorado 80306 Application Type: TEC DOC REVIEW Case No: ...	BOULDER COUNTY CORONER FACILITY 5600 Flairton Parkway Boulder, Colorado 80301						
IRRIGATION DETAILS	Project No: 13-005						
11.05							



LUMINAIRE SCHEDULE							
Symbol	Label	Catalog Number	Description	Lamp	Lumens	LLF	Watts
	AA	WP6S4-100PMH-ED7THS	WAPR 9 DIE CAST ALUM. HOUSING ALUM. REFLECTOR SYSTEM, HIGH SPECULAR REFLECTIVE PANELS CLEAR FLAT GLASS LENS, HOUSING SIDE AND HOUSE SIDE SHIELD, 25° OF TOTAL LUMINAIRE HEIGHT	PHILIPS COSMOPOLIS COSMOWHITE, 10800 RATED LUMENS	10800	1.00	90
	BB	WP6S3-100PMH-ED7THS	WAPR 9 DIE CAST ALUM. HOUSING ALUM. REFLECTOR SYSTEM, REFLECTIVE PANELS CLEAR FLAT GLASS LENS, HOUSING SIDE AND HOUSE SIDE SHIELD, 25° OF TOTAL LUMINAIRE HEIGHT	PHILIPS COSMOPOLIS COSMOWHITE, 10800 RATED LUMENS	10800	1.00	90
	CC	WP1E2CS / ALE02D	GAST METAL HOUSINGS EACH WITH ONE LED, MOLDED PLASTIC REFLECTOR SYSTEM, SPECULAR FINISH AND ONE APERTURE PER LED. LEARN FLAT GLASS LENS, HOUSING WHITE PAINTED METAL LENS FRAME.	TWO WHITE M.T.L. CHIP LIGHT EMITTING DIODES (LEDS) EACH CONTAINS LEDS ARRANGED IN SEMI-ARRAY OF THREE 30DEGREES FROM CENTER LINE, TLTED LINEAR ROWS, TLTED 30DEGREES FROM CENTER LINE, HOUSING POSITION AND CAITED 15DEGREES FROM STRAIGHT AHEAD.	Absolute	1.00	30
	DD	WP1E2D0	WITH SPECULAR REFLECTOR AND CLEAR FLAT GLASS LENS	TWO LED ARRAYS, LUMINAIRE OUTPUT = 1440 LMS	Absolute	1.00	21.5
	FF	WP6C-WHITE	Cast aluminum heat sink, polished, translucent white powder coated, and white aluminum lower reflector	One white LED	Absolute	1.00	9.83
	EXIST	WP6S3-100PMH-ED17	WAPR 9 DIE CAST ALUM. HOUSING ALUM. REFLECTOR SYSTEM, REFLECTIVE PANELS CLEAR FLAT GLASS LENS AND HOUSE SIDE SHIELD	PHILIPS COSMOPOLIS COSMOWHITE, 10800 RATED LUMENS	10800	1.00	90
	E-WAL	WP1E2D0	WITH SPECULAR CLEAR FLAT GLASS LENS	TWO LED ARRAYS, LUMINAIRE OUTPUT = 1440 LMS	Absolute	1.00	21.5

STATISTICS						
Description	Symbol	Avg	Max	Min	MaxColm	Applm
Enter Site	+	0.5 t	4.7 t	0.0 t	N/A	N/A
Parking Area #4 (Exiting)	+	1 t	2.3 t	0.3 t	7.6 t	3.7 t
Parking Area #6 (Exiting)	+	1.2 t	2.7 t	0.3 t	9 t	4.0 t
Parking Area #1	+	1.2 t	2.7 t	0.4 t	6.8 t	3.0 t
Parking Area #2	+	0.9 t	2.5 t	0.3 t	8.3 t	3.0 t
Parking Area #3	+	1.4 t	3.0 t	0.6 t	5.0 t	2.3 t
Project Area of Influence	+	0.5 t	5.0 t	0.0 t	N/A	N/A

WORK NOTES:


1 LUMINAIRE MOUNTED AT +17'-0" AFG.

IN THE EVENING ALL EXTERIOR LUMINAIRES SHALL BE CONTROLLED WITH A PHOTOCELL FOR "ON" AND AN ASTRONOMICAL TIMELOCK FOR "OFF" OPERATION.

IN THE MORNING, ALL EXTERIOR LUMINAIRES SHALL BE CONTROLLED WITH AN ASTRONOMICAL TIMELOCK FOR "ON" AND A PHOTOCELL FOR "OFF" OPERATION.

REFER TO LANDSCAPE DRAWINGS FOR NEW TREE DESCRIPTIONS.

ALL NEW POLE MOUNTED LUMINAIRES, TYPE "A", AND "B8" SHALL BE MOUNTED AT 25'-0" AFG TO TOP OF LUMINAIRE TO MATCH EXISTING.

BRAIN BY: MMW CHECKED BY: JAL	Boulder County Administrative Services Building Services Division - Architects 2020 13th Street Boulder, Colorado 80302 Tel: 303-441-3957 Fax: 303-441-1718	<table><tr><td>REVISION</td><td>DATE</td></tr><tr><td>Final Doc Review</td><td>07/15/2013</td></tr><tr><td>Pre Doc Review</td><td>09/11/2013</td></tr></table>	REVISION	DATE	Final Doc Review	07/15/2013	Pre Doc Review	09/11/2013	BOULDER COUNTY CORONER FACILITY 5600 Flatiron Parkway Boulder, Colorado 80301
	REVISION	DATE							
Final Doc Review	07/15/2013								
Pre Doc Review	09/11/2013								
	 BCER ENGINEERING <small>Building Services Engineering 2020 13th Street Boulder, Colorado 80302 Phone: 303-442-7000 Fax: 303-442-7000 www.bcer.com</small>	Applicant Information Boulder County Administrative Services Building Services Division - Architects P.O. Box 471 Boulder, Colorado 80306 Application Type: JEC DOC REVIEW Case No.: ...	SITE PHOTOMETRIC PLAN E1.01						

